

GAS CONSULTANTS, INC.

7590 INDEPENDENCE DRIVE, WALTON HILLS, OHIO 44146
TELEPHONE: (440) 232-3200 • FAX: (440) 232-1834
www.gasconsultants.com

South Coast Air Quality Management District

NO_x Emissions Test Report

For

Riello

**2165 Meadowpine Boulevard
L5N 6H6 Mississauga - Ontario**

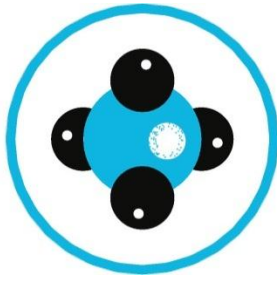
July 6, 2015

Two (2) gas-fired Hot Water Boilers, SSB 512 & SSB255 from Riello, were tested per South Coast Air Quality Management District - Rule 1146.2 – As amended May 5, 2006. The boiler was tested at Gas Consultants, Inc. in Walton Hills, OH. Gas Consultants, Inc. is a certified SCAQMD NO_x testing laboratory per SCAQMD's Laboratory Approval Program (reference number 94LA0815). Gas Consultants Inc. is an independent testing laboratory with no financial interest in Riello or their affiliates.

The following report (GCI reference project number YRL01), describes the test procedures, environmental conditions, equipment list, test data and test results for the commercial hot water boiler tested as defined in Rule 1146.2 and SCAQMD Protocol, "Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers", March 1995 (Amended January 1998).

Sincerely,

Tom Wat
General Manager
Gas Consultants, Inc



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South Coast Air Quality Management District

NO_x Emissions Test Report

for

Riello
2165 Meadowpine Boulevard
L5N 6H6 Mississauga - Ontario

Gas-Fired Hot Water Boilers

SSB-512
SSB-255

Conducted According To

SCAQMD Protocol
“Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers”, March 1995 (Amended January 1998)
&
SCAQMD Rule 1146.2
As amended May 5, 2006

Conducted By
Gas Consultants, Inc.
At
Walton Hills, OH

[GCI projects Ref. No. YRL01]

July 6, 2015

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SUMMARY

The following table(s) lists the model number(s), manufacturer's input rates, measured input rates, measured NO_x emissions, and tested dates for the hot water boiler(s).

					NOx (ppm)	
Run	Model #	Input	Btu/Hr	NG/J	@ 3% O3	Date
1	SSB512 High: 488.0 MBH Low: 97.6 MBH	Maximum =	479,838	9.1	17.4	6/22/2015
		Intermediate =	243,451	9.7	18.4	6/22/2015
		Minimum =	98,570	2.9	5.0	6/24/2015
2		Maximum =	483,882	8.1	15.6	6/23/2015
		Intermediate =	243,648	9.4	18.1	6/23/2015
		Minimum =	98,073	2.7	4.5	6/25/2015
3		Maximum =	482,368	9.1	17.4	6/23/2015
		Intermediate =	243,116	9.6	18.4	6/23/2015
		Minimum =	98,643	2.9	5.0	6/25/2015
1	SSB255 High: 255.0 MBH Low: 51.0 MBH	Maximum =	255,897	9.3	17.6	6/12/2015
		Intermediate =	154,889	8.8	16.7	6/12/2015
		Minimum =	50,728	1.4	2.3	6/19/2015
2		Maximum =	251,229	9.1	16.9	6/12/2015
		Intermediate =	155,110	8.8	16.7	6/12/2015
		Minimum =	52,048	2.0	3.3	6/19/2015
3		Maximum =	253,487	8.8	16.7	6/18/2015
		Intermediate =	153,897	9.5	17.8	6/18/2015
		Minimum =	51,661	2.4	3.9	6/19/2015

All tests conducted according to SCAQMD Protocol "Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers", March 1995 (Amended January 1998) and SCAQMD Rule 1146.2 as amended May 5, 2006.

1.0 OVERVIEW AND APPLICABILITY

The testing detailed in this report has been performed in accordance with SCAQMD protocols to insure compliance to the NO_x emission requirements of Rule 1146.2.

2.0 ENVIRONMENTAL CRITERIA

The ambient temperature was maintained between 65 °F and 85 °F and did not vary more than ± 7 °F in a period of 15 minutes throughout the testing. The ambient temperature was recorded every fifteen seconds during the duration of calibration and testing. The relative humidity was between 20% and 65% during the test. The relative humidity and barometric pressure were recorded before and after each test.

3.0 DEFINITIONS

3.1 Independent Testing Laboratory: Gas Consultants, Inc is Certified to SCAQMD Laboratory Approval Program via Reference No. 94LA0815.

4.0 TEST CONDITIONS

4.1 AMBIENT AIR TEMPERATURE

See above

4.2 SUPPLY WATER TEMPERATURE

4.2.1 Not Applicable.

4.2.2 Not Applicable.

4.2.3 Steam and Hot Water Boilers

The make up water temperature supplied to the boiler was maintained at 70 ± 2 °F or per manufacturer's required temperature.

4.3 SUPPLY WATER PRESSURE

4.3.1 Not Applicable.

4.3.2 Not Applicable.

4.3.3 Steam and Hot Water Boilers

Pressure in the boiler was maintained in accordance with the manufacturer's instructions.

4.4 NATURAL GAS PRESSURE

The supply pressure was maintained at 7.0 in.w.c. or to manufacturer's specifications. The heating value was measured using a dry calorimeter. The heating value was verified and was recorded before and after each test.

5.0 INSTRUMENTATION **[Reference Appendix A]**

The following equipment was used to evaluate the NO_x emissions per SCAQMD Protocol, "Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers", March 1995 (Amended January 1998) - Section 5.0 – "Instrumentation". All

instrumentation was calibrated per SCAQMD Source Test Methods Chapter III, Calibrations, as well as Gas Consultants, Inc.'s QC Manual currently on file with SCAQMD.

5.1 PRESSURE MEASUREMENTS

A Dwyer U-tube water manometer was used for gas pressure measurements.

5.2 TEMPERATURE MEASUREMENTS

Tank Probe: Not Applicable for this test.

Inlet/Outlet Probes:

Type-T thermocouple probes were connected to a data logging system.

Ambient Probe:

Type-T thermocouple probes were connected to a data logging system.

5.3 BAROMETRIC PRESSURE

Manufacturer: Omega Engineering

Model No.: iBTHX-W (Tag #447)

Accuracy: See enclosed information.

5.4 LIQUID FLOW MEASUREMENTS

Manufacturer: Neptune

Model No.: DM2G11 (Tag #339)

Water flow measurements were verified using a platform scale, traceable to a NIST Standard, to confirm accuracy of the meter reading. See "Mass Measurement" below.

5.5 NATURAL GAS FLOW

Dry gas meter used for Maximum Input rate determination

Manufacturer: American Meter

Model No.: DTM-200 (Tag #019)

Accuracy: See enclosed calibration charts.

5.6 MASS MEASUREMENTS

Manufacturer: First Weight Scales

Model No.: GSE 465 (Tag #099)

Serial No.: 151585

5.7 TIME

Time is measured using the data logger equipment listed below.

5.8 FLUE GAS ANALYSIS

5.8.1 NO_x Concentration:

Manufacturer: Thermo Environmental Instruments Inc.

Model No.: 42i-LS (Tag #547)

Serial No.: 1502864125

Selectable Ranges (ppm): 0-10, 20, 50, 100, 200, 500

Accuracy: $\pm 1\%$

5.8.2 CO concentration: See 5.8.3

5.8.3 Carbon Dioxide Concentration

Non-Dispersive Infra-Red (NDIR) Analyzer:
Manufacturer: Seimens
Model No.: Ultramat 23 (Tag #368)
Serial No.: 7MB2337-8AG00-5CN1
Range: CO = 0 to 1000 ppm
CO₂ = 0 to 10.0%
Accuracy: ± 1%

5.8.4 Sample Conditioning System

Uses a refrigerated condenser/separator system that has been approved by SCAQMD. The description of this system is the following:

All fittings, solenoids and pumps are stainless steel. All tubing is Teflon or glass (i.e., inert to NO_x). The sample line tubing is wrapped with an electrical heating cable that keeps the sample line at approximately 175 °F to prevent condensation before the conditioning system.

The sample conditioner consists of a Baldwin electronic, thermoelectric, cooling system (Model 325). The moisture laden, heated, flue gas sample enters the chiller (set point 32 °F) and the condensation descends to the bottom before the treated, sample flue gases leave the chiller. A drain system at the bottom of the chiller cylinder operates continuously to remove accumulated condensate.

5.8.4.1 Sample Probe

5.8.4.1.1 Integrating Sample Probes

An integrated sample probe constructed as described in Figure 3 of SCAQMD's Protocol is constructed of 316 stainless steel tubing.

5.8.4.1.2 Open Ended Sample Probes

Not Applicable

5.8.4.2 Sample Lines

From the probe until it reaches the chiller system as described above, the sample lines are heated to approximately 175 °F to prevent condensation before the moisture removal system.

5.8.4.3 Moisture Removal System

The moisture removal system is a chiller system as described above. The dew point of the dry gas is always less than 35 °F.

5.8.4.3.1 Permeation-Type Dryers: DNA

5.8.4.3.2 Refrigerated Condenser/Separator: See above.

5.8.4.4 Sample Pump

The sample pump is a diaphragm-type made of 316 stainless steel.

5.8.4.5 Flow Indicators

Indicators are for operators convenience; calibration not required. Water is not allowed to collect within the flow indicator tubes.

5.8.4.6 Sample Vent

All analyzers use an unrestricted atmospheric sample vent.

5.9 Natural Gas Composition

Type Used: Gas Calorimeter
Manufacturer: Agilent
Model No.: 3000A (Tag #489)
Accuracy: $\pm 1.0\%$
Calibration: Weekly

6.0 ANALYTICAL METHODS

The analytical methods followed were in accordance with SCAQMD Protocol, “Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers”, March 1995 (Amended January 1998), Section 6.0 – “Analytical Methods” as described below:

6.1 START UP

6.1.1 Analyzer

All analyzers were allowed to warm-up overnight before testing any appliances.

6.1.2 Sample Conditioning System

The heated sample line was allowed to warm-up overnight. The condensate removal system was turned on one hour before testing, in order to allow the system to stabilize in temperature.

6.2 CALIBRATION AND PERFORMANCE TESTING

6.2.1 Analyzer Calibration

The analyzers were calibrated per SCAQMD’s Method 100.1. The following gases were used for calibrating the analyzers.

Calibration Gases for NOx Analyzer

Supplier:	Airgas Great Lakes, Inc		
Accuracy:	NIST Traceable to $\pm 1\%$		
<u>Cylinder No.</u>	<u>NOx(ppm)</u>	<u>Balance</u>	
EE0018049	6.95	Nitrogen	
CC100400	14.56	Nitrogen	
CC267435	26.66	Nitrogen	

Calibration Gases for NDIR Analyzer:

Supplier:	Airgas Great Lakes, Inc		
Accuracy:	NIST Traceable to $\pm 1\%$		
<u>Cylinder No.</u>	<u>CO(ppm)</u>	<u>CO2(%)</u>	<u>Balance</u>
CC129082	249	2.594	Nitrogen
CC25693	502.5	5.007	Nitrogen
CC353963	976	9.488	Nitrogen

6.2.2 Sampling System Bias Test:

The sampling system bias test was performed per SCAQMD Method 100.1 before and after testing. The bypass flow rate was not altered during the calibration procedure.

6.2.3 Response Time:

Since an integrated probe was used and not the multi-point transverse method, it was not required to perform and record the response time.

6.2.4 NO₂ to NO Conversion Efficiency:

The converter efficiency is measured in accordance with EPA method 20 at least once a month.

6.3 Analysis:

6.3.1 Sample Point:

6.3.1.1 Appliances with Vents Less Than 12 Inch Diameter:

An integrating probe of the proper length was used for each model tested.

6.3.1.2 Appliances with Vents 12 Inch Diameter or Greater:

Not Applicable.

6.3.2 Sampling Periods:

6.3.2.1 Integrating Sample Probes:

A continuous sample was taken after calibration through the end of the test.

6.3.3 Data Recording:

The output of each analyzer was recorded to a data logger once every 15 seconds. The following data logging equipment (hardware and software) was used to record the analyzer outputs, water flow, state of the burner (on/off), and probe temperatures.

Data logging Equipment:

Manufacturer: Dell Computer

Model No.: Inspiron 530S DCSLF

Serial No.: CYY5FH1 28234598293

Analog Input Measurement:

Manufacturer: I-O Tech

Model No.: Personal DAQ/56

Accuracy: See enclosed "Calibration Verification"

Analog Input Measurement:

Manufacturer: I-O Tech

Model No.: PDQ2

Accuracy: See enclosed "Calibration Verification"

7.0 **INSTALLATION**

The water heater(s) were set up according to SCAQMD Protocol, "Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers", March 1995 (Amended January 1998), Section 7.0 - "Installation" as described below:

7.1 Not Applicable

7.2 Not Applicable

7.3 Not Applicable.

7.4 STEAM AND HOT WATER BOILERS

7.4.1 Steam Boilers: Not Applicable

7.4.2 Hot Water Boilers

7.4.2.1 Boiler Installation

Boiler was installed in accordance with manufacturer's instructions.

7.4.2.2 Water Supply

The water supply was capable of delivering water at conditions specified in Sections 4.2 and 4.3 of this protocol.

7.4.2.3 Water Inlet and Outlet Connection

Inlet and outlet piping connections installed as shown in Figure 8 of SCAQMD Protocol, "Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers", March 1995 (Amended January 1998).

7.4.2.4 Water Consumption

Water consumption measured with calibrated water flow totalizer as described in section 5.4.

7.4.2.5 Fuel Consumption

Fuel consumption was measured using a calibrated gas meter as described in section 5.5.

7.4.2.6 Ambient Temperature

Ambient temperature was measured at the approximate vertical mid point of the boiler, 2 feet from the surface of the boiler.

7.4.2.7 Flow Control

A flow control valve was installed downstream of the outlet temperature sensor.

7.4.2.8 Inlet and Outlet Water Temperature Measurements

Inlet and outlet temperature probes were installed within 24" of the boiler inlet and outlet, as shown in Figure 8 in Rule 1146.2 and in accordance with ASHRAE STD 41.1-1986.

7.4.2.9 Vent Requirements

Test unit equipped with power burner system. Vent system installed in accordance with manufacturer's instructions.

7.4.2.10 Natural Gas Sample

Since a dry calorimeter was used, a sample of fuel gas was not collected for fuel composition analysis.

8.0 TEST PROCEDURE

The testing was performed per SCAQMD Protocol, “Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers”, March 1995 (Amended January 1998), Section 8.0 – “Test Procedures” as described below:

8.1 Not Applicable

8.2 Not Applicable.

8.3 Not Applicable.

8.4 STEAM AND HOT WATER BOILERS

8.4.1 Steam Boilers: Not Applicable

8.4.2 Hot Water Boilers

8.4.2.1 Power Input:

The unit was adjusted to the manufacturer’s specified BTU/hr input rates at $\pm 10\%$ of the specified manifold pressure setting and was within the $\pm 2\%$.

8.4.2.2 Outlet Water Temperature:

The water flow was adjusted to provide a discharge water temperature of $180^{\circ} \pm 2^{\circ}\text{F}$ unless it is prevented by a limit switch incorporated with the appliance.

8.4.2.3 Emission Testing: was performed as follows:

1. When outlet water temperature reached ‘equilibrium’ conditions for no less than 1-hour; the time, gas meter and water meter readings are recorded. ‘Equilibrium’ was determined by monitoring outlet water temperatures within $\pm 5^{\circ}\text{F}$ over a five-minute period.
2. The flow of fuel to the boiler was not interrupted at this time.
3. Continuous sampling (at 15-second intervals) was conducted of CO_2 / CO / NO_x / Inlet Water / Outlet Water and Ambient temperature levels. Throughout the test period (30 minute), the ambient temperature is not allowed to vary by more than $\pm 5^{\circ}\text{F}$.
4. After 30 minutes, the final water meter and gas meter readings were recorded.
5. The arithmetic mean of the ambient temperature; discharge (T_{del}) and inlet (T_{in}) water temperatures, during the test was determined.
6. The arithmetic mean of the CO_2 / CO and NO_x concentrations measured during the last three “one-minute” periods of the test was determined.

9.0 CALCULATIONS

All calculations were done using the formulas found in ‘Section 9’ of SCAQMD Protocol, “Nitrogen Oxide Emissions Compliance Testing for Natural Gas-Fired Water Heaters and Small Boilers”, March 1995 (Amended January 1998)

APPENDIX A

CALIBRATION VERIFICATION

This appendix contains Gas Consultants, Inc.'s documented reports showing that the equipment used during this testing program was within the specified calibration dates and complies with SCAQMD's specified calibration procedures from SCAQMD Rule 1146.2 (As amended May 5, 2006), SCAQMD Source Test Methods Chapter III, Calibration and SCAQMD Method 100.1.

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	NO _x ANALYZER
MANUFACTURER:	THERMO ENVIROMENTAL INSTR.
MODEL NUMBER:	42 ILS (Tag #547)
SERIAL NUMBER:	1502864125
DATE PURCHASED:	January 2015
SPECIFICATION, CAPACITY, ETC.	0-10 to 500 ppm NO and NO _x
CALIBRATION INTERVAL IN MONTHS:	AS PER METHOD 100.1
LAST CALIBRATED:	---
CALIBRATION DUE DATE:	---
INSTRUMENT SERVICE COMPANY:	Gas Consultants Inc.

**Airgas USA, LLC**

2009 BELLAIRE AVE
ROYAL OAK, MI 48067
248-399-8020
Airgas.com

CERTIFICATE OF ANALYSIS**Grade of Product: EPA Protocol**

Customer: GAS CONSULTANTS INC
Part Number: E02NI99E15A1667
Cylinder Number: EB0018049
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62015
Gas Code: NO,NOX,BALN

Reference Number: 32-400470841-1B
Cylinder Volume: 144.3 CF
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Certification Date: Mar 03, 2015

Expiration Date: Mar 03, 2018

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	7.000 PPM	6.946 PPM	G1	+/- 1.4% NIST Traceable	02/24/2015, 03/03/2015
NITRIC OXIDE	7.000 PPM	6.854 PPM	G1	+/- 1.3% NIST Traceable	02/24/2015, 03/03/2015
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13061133	CC406073	10.14 PPM NITRIC OXIDE/NITROGEN	+/- 1.0%	Feb 07, 2017
NTRM	13061133	CC406073-NOx	10.14 PPM NOx/NITROGEN	+/- 1.0%	Feb 07, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
NO CAI-600 EN 176	Chemiluminescence	Feb 23, 2015
NOx CAI-600 EN 176	Chemiluminescence	Feb 23, 2015

Triad Data Available Upon Request



Approved for Release

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GCI #1054
Received 6 Mar 15

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E02NI99E15A1619	Reference Number:	32-400374756-1
Cylinder Number:	CC100400	Cylinder Volume:	144.3 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62014	Valve Outlet:	660
Gas Code:	NO,BALN	Certification Date:	Jun 11, 2014

Expiration Date: Jun 11, 2017

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig or 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	14.00 PPM	14.56 PPM	G1	+/- 0.5% NIST Traceable	06/03/2014, 06/11/2014
NITRIC OXIDE	14.00 PPM	14.56 PPM	G1	+/- 0.5% NIST Traceable	06/03/2014, 06/11/2014
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13061127	CC403873	10.14 PPM NITRIC OXIDE/NITROGEN	+/- 1.0%	Feb 07, 2017
NTRM	13061127	CC403873-NOX	10.14 PPM NOx/NITROGEN	+/- 1.0%	Feb 07, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
NO CAI-600 EN 176	Chemiluminescence	Jun 04, 2014
NOx CAI-600 EN 176	Chemiluminescence	Jun 04, 2014

Triad Data Available Upon Request

Notes:

DM

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GCI #1038

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas USA, LLC

2009 BELLAIRE AVE
ROYAL OAK, MI 48067
248-399-8020
Airgas.com

Customer:	GAS CONSULTANTS	Reference Number:	32-400470840-1A
Part Number:	E02NI99E15A3577	Cylinder Volume:	144.3 CF
Cylinder Number:	CC267435	Cylinder Pressure:	2015 PSIG
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Valve Outlet:	660
PGVP Number:	B62015	Certification Date:	Jan 20, 2015
Gas Code:	NO,NOX,BALN		

Expiration Date: Jan 20, 2018

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	27.00 PPM	26.66 PPM	G1	+/- 1.4% NIST Traceable	01/10/2015, 01/20/2015
NITRIC OXIDE	27.00 PPM	26.49 PPM	G1	+/- 0.9% NIST Traceable	01/10/2015, 01/20/2015
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13061244	CC403937	49.40 PPM NITRIC OXIDE/NITROGEN	+/-0.80%	Nov 19, 2019
PRM	12314	726635	50.0 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Mar 15, 2013
NTRM	12061630	CC344852	20.23 PPM NITRIC OXIDE/NITROGEN	+/-0.9%	Feb 07, 2017
PRM	12329	726612	25.02 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.5%	Oct 15, 2014
GMIS	A124199110104	CC323259	15.05 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.6%	Nov 08, 2016
GMIS	124206889134	CC323702	4.666 PPM NITROGEN DIOXIDE/NITROGEN	+/-2.0%	May 05, 2016

The SRM, PRM or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54 Nicolet 6700 NO	FTIR	Jan 05, 2015
E/N 54 Nicolet 6700 NO2	FTIR	Jan 06, 2015

Triad Data Available Upon Request

GCE #1044
RCVD 26 JAN



[Signature]

Approved for Release

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TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	NDIR CO-2 / CO ANALYZER
MANUFACTURER:	SEIMENS
MODEL NUMBER:	ULTRAMAT 23 (Tag #368)
SERIAL NUMBER:	7MB2337-8AG00-5CN1
DATE PURCHASED:	Feb., 2006
SPECIFICATION, CAPACITY, ETC.	CO-2 : 0 - 10.0 % CO : 0-1000 ppm
CALIBRATION INTERVAL IN MONTHS:	AS PER METHOD 100.1
LAST CALIBRATED:	---
CALIBRATION DUE DATE:	---
INSTRUMENT SERVICE COMPANY:	SIEMENS



GCI# 1056

Airgas USA, LLC2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020 Fax: 248-399-8020
Airgas.com**CERTIFICATE OF ANALYSIS****Grade of Product: EPA Protocol**Customer: GAS CONSULTANTS INC
Part Number: E03NI97E15A0023
Cylinder Number: CC129082
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62015
Gas Code: CO2,CO,BALNReference Number: 32-400514555-1
Cylinder Volume: 145.6 CF
Cylinder Pressure: 2015 PSIG
Valve Outlet: 350
Certification Date: Mar 30, 2015**Expiration Date: Mar 30, 2023**

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON MONOXIDE	250.0 PPM	249.1 PPM	G1	+/- 0.7% NIST Traceable	03/30/2015
CARBON DIOXIDE	2.500 %	2.594 %	G1	+/- 0.7% NIST Traceable	03/30/2015
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	12060334	CC353982	249.3 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Oct 26, 2017
NTRM	99060917	XC018892B	3.01 % CARBON DIOXIDE/NITROGEN	+/-0.7%	Apr 23, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54 Nicolet 6700 CO2	FTIR	Mar 23, 2015
E/N 54 Nicolet 6700 CO	FTIR	Mar 06, 2015

Triad Data Available Upon Request


Approved for Release

Page 1 of 32-400514555-1



1Wservice 4-24-15
10 57

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas USA, LLC

2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
Airgas.com

Customer: OAKWOOD
Part Number: E03NI94E15A0651
Cylinder Number: CC25693
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62015
Gas Code: CO,CO2,BALN

Reference Number: 32-400493007-1
Cylinder Volume: 146.9 CF
Cylinder Pressure: 2015 PSIG
Valve Outlet: 350
Certification Date: Feb 12, 2015

Expiration Date: Feb 12, 2023

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON MONOXIDE	500.0 PPM	502.5 PPM	G1	+/- 1.0% NIST Traceable	02/12/2015
CARBON DIOXIDE	5.000 %	5.007 %	G1	+/- 1.0% NIST Traceable	02/12/2015
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	12062408	CC199564	487.1 PPM CARBON MONOXIDE/NITROGEN	+/-0.6%	Jun 22, 2018
NTRM	10060104	CC281122	5.027 % CARBON DIOXIDE/NITROGEN	+/-0.4%	Nov 01, 2015

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
CO2 SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Feb 07, 2015
CO SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Feb 07, 2015

Triad Data Available Upon Request




Approved for Release

Page 1 of 32-400493007-1



CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas USA, LLC

2009 BELLAIRE AVE
ROYAL OAK, MI 48067
248-399-8020
Airgas.com

Customer: GAS CONSULTANTS INC
Part Number: E03NI90E15A79S6
Cylinder Number: CC353963
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62015
Gas Code: CO,CO2,BALN

Reference Number: 32-400470842-1
Cylinder Volume: 149.5 CF
Cylinder Pressure: 2015 PSIG
Valve Outlet:
Certification Date: Jan 06, 2015

Expiration Date: Jan 06, 2023

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON MONOXIDE	950.0 PPM	976.0 PPM	G1	+/- 0.7% NIST Traceable	01/06/2015
CARBON DIOXIDE	9.500 %	9.488 %	G1	+/- 1.0% NIST Traceable	01/06/2015
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060340	CC339832	988.8 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Dec 13, 2016
NTRM	12061340	CC360798	11.002 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 11, 2018

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54 Nicolet 6700 CO2	FTIR	Dec 15, 2014
E/N 54 Nicolet 6700 CO	FTIR	Dec 30, 2014

Triad Data Available Upon Request

GCI #1042



Approved for Release

Page 1 of 32-400470842-1

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	DRY GAS METER
MANUFACTURER:	American Meter Company
MODEL NUMBER:	AL – DTM-200 (Tag #019)
SERIAL NUMBER:	83K273182
DATE PURCHASED:	— — —
SPECIFICATION, CAPACITY, ETC.	40- 600 SCFH
CALIBRATION INTERVAL IN MONTHS:	See Attached Certificate of Calibration
LAST CALIBRATED:	25-September-2014
CALIBRATION DUE DATE:	25-September-2015
INSTRUMENT SERVICE COMPANY:	Broadview Instrumentation Services, Inc. Valley View, Ohio.

BROADVIEW INSTRUMENTATION SERVICES, INC.

CERTIFICATE OF CALIBRATION



10060 Nov. '10 Rev. 2.20

7632B Hub Parkway Valley View, OHIO 44125

216-525-0050

NAME:	Gas Consultants Inc.	PURCHASE ORDER	J08282014N
ADDRESS:	7590 Independence Drive	CALIBRATION	
CITY/STATE:	Walton Hills OH	REPAIR	
ZIP:	44146	TOTAL COST	
CONTACT/PHONE:	Jim Nagorka	ON-SITE	NO
RECEIVED CONDITION:	Within Spec	RETURNED	Within Spec
MANUFACTURER:	American Meter Co.	CALIBRATION DATE	25-Sep-14
MODEL:	DTM-200 Gas Meter	CALIBRATION DUE	25-Sep-15
SERIAL / ASSET:	83K273182 019	TEMP/ RH%	24.9°C / 50.2%

	NOMINAL VALUE	AS FOUND	TUR	DEVIATION	AS LEFT	DEVIATION	U (95%)
SCFH				± 0.25%			scfh
	40.00	40.084		0.210%	40.084	0.210%	9.4E-02
	200.00	200.118		0.059%	200.118	0.059%	4.7E-01
	425.00	425.752		0.177%	425.752	0.177%	1.0E+00
	600.00	601.356		0.226%	601.356	0.226%	1.4E+00

STP 15.55°C @ 1ATM

EQUIPMENT USED IN CALIBRATION:

QC#	MANUFACTURER	MODEL	DATE DUE
0571	DHI	3E4-VCR-V-Q	25-Mar-15
0902	Fluke	2E2-S molbloc-S	12-Sep-16
1004	Molbox	molbox1+A700K-A	21-Feb-15
0941	OSLO	SILVER 2.0	13-Mar-15
0672	OMEGA	I-SERVER	21-Nov-15

BIS TEST REPORT NO: 419075538

Traceability information: This calibration was conducted using an unbroken chain of standards to National Institute of Standards and Technology.

Customer approval: _____ Reviewed By: Joe R. _____ Metrologist: David Crnjak

All equipment used for this calibration is traceable to National Standards (e.g. NIST). Calibration meets ISO/IEC 17025, The Uncertainty of standards utilized for calibration meet a Test Uncertainty Ratio (TUR) of 4:1 (at k=2, 95% confidence interval) or better unless otherwise stated. The results contained herein relate only to the item calibrated.

While the calibration due date is recommended, the client is advised that any number of factors may cause the item to drift out of calibration before the recommended due date expires. It is the responsibility of the client to monitor the calibration status while using the equipment.

FORM #10C Jun. '13 Rev. 1.40 Note this form may not be reproduced except in full without written permission of Broadview Instrumentation Service, Inc.

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	BAROMETER
MANUFACTURER:	Omega Engineering
MODEL NUMBER:	iBTHX-W (Tag #447)
SERIAL NUMBER:	9510545
DATE PURCHASED:	December 16, 2009
SPECIFICATION, CAPACITY, ETC.	- - -
CALIBRATION INTERVAL IN MONTHS:	12 Months
LAST CALIBRATED:	January 2, 2015
CALIBRATION DUE DATE:	January 2, 2016
INSTRUMENT SERVICE COMPANY:	Broadview Instrumentation Services, Inc.

BROADVIEW INSTRUMENTATION SERVICES, INC.

CERTIFICATE OF CALIBRATION

7632 Hub Parkway Valley View, OHIO 44125



216-525-0050

10037 Nov. '10 Rev. 3.21

NAME:	Gas Consultants Inc.		PURCHASE ORDER	
ADDRESS:	7590 Independence Drive		CALIBRATION	
CITY/STATE:	Walton Hills	OH	REPAIR	
ZIP:	44146		TOTAL COST	
CONTACT/PHONE:	Rick Sandstrom		ON-SITE	NO
RECEIVED CONDITION:	Within Spec		RETURNED	Within Spec
MANUFACTURER:	Omega		CALIBRATION DATE	2-Jan-15
MODEL:	iBTHX-W	Temperature/Humidity Meter	CALIBRATION DUE	2-Jan-16
SERIAL / ASSET:	9510545	447	TEMP/ RH%	23.7°C / 30.1%

NOMINAL VALUE	AS FOUND	TUR	DEVIATION	AS LEFT	DEVIATION	U (95%)
Degrees °F						
42.46	43.4		±1.0°F	43.4	±1.0°F	°F
69.57	69.8		0.9	69.8	0.9	2.4E-01
109.76	109.5		0.2	109.5	0.2	2.4E-01
			-0.3		-0.3	2.4E-01
% Relative Humidity						
			±2.0 %RH		±2.0 %RH	%RH
20.19	22.0		1.8	22.0	1.8	5.8E-01
49.92	48.1		-1.8	48.1	-1.8	5.8E-01
80.00	80.6		0.6	80.6	0.6	5.8E-01
Barometric Pressure (mbar)						
			±2.0 mbar		±2.0 mbar	mbar
998.104	998.1		0.0	998.1	0.0	1.1E-01

EQUIPMENT USED IN CALIBRATION:

QC#	MANUFACTURER	MODEL	DATE DUE
0683	THUNDER SCIENTIFIC	01200	10-Dec-15
0573	RUSKA	7252i	9-Jan-15
0651	OMEGA	I SERVER	25-Jul-16

BIS TEST REPORT NO: 420063813

Traceability information: This calibration was conducted using an unbroken chain of standards to National Institute of Standards and Technology.

Customer approval: Reviewed By: Robert M. Smith Metrologist: Corey Smith

All equipment used for this calibration is traceable to National Standards (e.g. NIST). Calibration meets ISO/IEC 17025, The Uncertainty of standards utilized for calibration meet a Test Uncertainty Ratio (TUR) of 4:1 (at k=2, 95% confidence interval) or better unless otherwise stated. The results contained herein relate only to the item calibrated.

While the calibration due date is recommended, the client is advised that any number of factors may cause the item to drift out of calibration before the recommended due date expires. It is the responsibility of the client to monitor the calibration status while using the equipment.

FORM #10C Jun. '13 Rev. 1.40 Note this form may not be reproduced except in full without written permission of Broadview Instrumentation Service, Inc.

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	CALORIMETER
MANUFACTURER:	Agilent
MODEL NUMBER:	3000A (Tag #489)
SERIAL NUMBER:	US10651005
DATE PURCHASED:	2006
SPECIFICATION, CAPACITY, ETC.	GASES: ALL COMBUSTIBLE
CALIBRATION INTERVAL IN MONTHS:	WEEKLY
LAST CALIBRATED:	----
CALIBRATION DUE DATE:	----
INSTRUMENT SERVICE COMPANY:	Gas Consultants Inc.

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	Water Meter (Accumulating type)
MANUFACTURER:	Neptune
MODEL NUMBER:	DM2G11 (Tag#339)
SERIAL NUMBER:	49230364
DATE PURCHASED:	---
SPECIFICATION, CAPACITY, ETC.	CAPACITY: 0.75 – 25 GPM
CALIBRATION INTERVAL IN MONTHS:	12 MONTHS
LAST CALIBRATED:	6-November-2014
CALIBRATION DUE DATE:	6-November-2015
INSTRUMENT SERVICE COMPANY:	GCI comparison to OCS Technologies Platform Scale

Water Meter Verification

Date 11/6/2014

Manufacturer Neptune

Tag # 339 Valve Body: Model # DM2G11

Serial # 49230364

Range: .75 to 25 gpm

Read Out Device: Model # N/A

(historical cal. went to 50 gpm)

Serial # N/A

Nominal Flow Rate	Water Temp	Water Density	Weight Before	Weight After	Weight Collected	Volume Collected	Collection Time	Flow Rate	Indicated Volume	Deviation	
gpm	F	lbs/gal	lbs	lbs	lbs	gal	sec	gpm	gal	gal	%
1.5	74.9	8.324	17.41	69.92	52.51	6.30827	240	1.5771	6.30	-0.008	-0.131
1.5	74.9	8.324	17.39	69.96	52.57	6.31547	240	1.5789	6.25	-0.065	-1.037
1.5	74.9	8.324	17.39	83.27	65.88	7.91446	300	1.5829	7.95	0.0355	0.449
3	65.7	8.332	74.1	123.8	49.7	5.96495	120.21	2.9773	6.08	0.115	1.9287
3	64.9	8.333	123.8	173.2	49.4	5.92824	120.38	2.9548	5.91	-0.018	-0.308
3	65	8.333	173.2	222.7	49.5	5.94024	119.9	2.9726	6.01	0.0698	1.1744
5	65.3	8.333	267.9	351.1	83.2	9.9844	119.76	5.0022	10.1	0.1156	1.1578
5	65.3	8.333	351.1	434.9	83.8	10.0564	120.4	5.0115	10.01	-0.046	-0.461
5	65.3	8.333	434.9	518.4	83.5	10.0204	118.96	5.054	10.09	0.0696	0.6946
7.5	65.2	8.333	575.5	697.5	122	14.6406	118.96	7.3843	14.75	0.1094	0.7473
7.5	65.2	8.333	697.5	821.7	124.2	14.9046	120.51	7.4208	14.85	-0.055	-0.366
7.5	65.2	8.333	637.3	761.5	124.2	14.9046	120.64	7.4128	15	0.0954	0.6401
15	65.3	8.333	87.1	334.7	247.6	29.7132	119.4	14.931	30.1	0.3868	1.3018
15	65.1	8.333	334.7	588.2	253.5	30.4212	119.3	15.3	30.4	-0.021	-0.07
15	65.1	8.333	588.2	837.8	249.6	29.9532	119.9	14.989	30	0.0468	0.1563
15	65.1	8.333	525.7	777	251.3	30.1572	120.75	14.985	30.08	-0.077	-0.256
25	65.5	8.333	61.6	478.7	417.1	50.054	120.41	24.942	50	-0.054	-0.108
25	65.5	8.333	478.7	896.4	417.7	50.126	120.26	25.009	50	-0.126	-0.251
25	65.5	8.333	357.6	774.4	416.8	50.018	120.28	24.951	50	-0.018	-0.036

Time: Tag # 540 Calibration due: 4/30/2016

Weight Tag # 99 Calibration due: 11/20/2014

Temp. Tag # 52 Calibration due: 10/28/2015

Tested By: Gas Consultants, Inc

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	SCALE
MANUFACTURER:	First Weigh
MODEL NUMBER:	GSE 465 (Tag #099)
SERIAL NUMBER:	151585
DATE PURCHASED:	01-October-1999
SPECIFICATION, CAPACITY, ETC.	CAPACITY: 1,000 LBS. (0.1 # incr.)
CALIBRATION INTERVAL IN MONTHS:	6 MONTH
LAST CALIBRATED:	13-May-2014
CALIBRATION DUE DATE:	30-November-2014
INSTRUMENT SERVICE COMPANY:	OHIO COUNTING SCALE-OCS Technologies Inc.

ASSET NUMBER:	B27065	PERFORMED ON:	13 May 2014
OWNER ASSET #:		DATE DUE:	30 Nov 2014
UNIT UNDER TEST:	GSE 465 FLOOR SCALE, 48"X48", 1000# X 0.1#	TEST RESULT:	PASS
SERIAL NUMBER:	151585	DATA TYPE:	AS-LEFT
LOCATION:	NORTH WALL	TEMP / HUMIDITY:	81.0 °F / 51 %RH
PROCEDURE NAME:	NIST HANDBOOK 44,LBS,2 STDs	SERVICE SITE:	ON-SITE
		CALIBRATED BY:	SZUCS
		APPROVED BY:	<i>Joseph S. Schum</i>

Unless Otherwise Noted: OCS Technologies, Inc. certifies that the above listed instrument has been tested using standards that are traceable to the International System of Units (SI) through the National Institute of Standards & Technology (NIST) or through another National Metrology Institute (NMI). The item tested meets or exceeds all specifications as stated in the referenced procedure solely at the time of calibration. Measurement uncertainty if reported has been calculated at k=2 providing a 95% confidence interval and has been excluded from the Pass/Fail Result above. OCS is ISO/IEC 17025 Accredited by the Laboratory Accreditation Bureau. Calibration performed in accordance with ISO 17025:2005 and ISO 10012:2003. This report may only be reproduced in full. Temperature and Humidity for on-site work may be reported above as the mean of high and low values recorded for all items on the day of service. If the data type is FOUND LEFT then the As Found and As Left data are the same.

Remarks: . AFTER ADJUSTMENTS

Standards Used

Asset	Traceable Through	Description	Cal Date	Cal Due Date
909B	CERT#:2013-151	RICE LAKE CLASS F 50# AND 25# WEIGHTS (525# TOTAL)	26 Mar 2013	26 Mar 2015
909A	CERT#:2013-158	RICE LAKE CLASS F 1000# TEST WEIGHTS (2000# TOTAL)	27 Mar 2013	27 Mar 2015

Test Results

Test Description	Range	True Value	Test Result	Lower Limit	Upper Limit	%TOL	Status
TESTED IN ACCORDANCE WITH NIST Handbook 44-Current Rev Section 2.20 Paragraphs N1.1, N1.3, N1.11, N.2,N.3.2 T.N.5 & Tables 4, T.11, 7A as Applicable.							

PEATABILITY VERIFICATION:

Result of Operator Evaluation Pass

SHIFT TEST VERIFICATION:

Result of Operator Evaluation Pass

LINEARITY:

100.00 lbs	100.00	100.0	99.8	100.2	lbs	0	Pass
200.00 lbs	200.00	200.0	199.8	200.2	lbs	0	Pass
300.00 lbs	300.00	300.0	299.7	300.3	lbs	0	Pass
500.00 lbs	500.00	500.0	499.5	500.5	lbs	0	Pass
1000.00 lbs	1000.00	1000.0	999.5	1000.5	lbs	0	Pass

Uncertainty of Measurement is +/- 0.14 LBS



14901 Emery Avenue | Cleveland, OH 44135
800.362.0364 | ocsal.com | info@ocsal.com

Certificate of Calibration



**LABORATORY
ACCREDITATION
BUREAU** a division of **ASQ**
ACCREDITED ISO/IEC 17025

CERT# L1152-1 Calibration / Dim Insp

CUSTOMER:

GAS CONSULTANTS
7590 INDEPENDENCE DRIVE
WALTON HILLS, OH 44146

TAG-99

ASSET NUMBER:	B27065	PERFORMED ON:	25 Nov 2014
OWNER ASSET #:		DATE DUE:	31 May 2015
UNIT UNDER TEST:	GSE 465	TEST RESULT:	PASS
	FLOOR SCALE, 48"X48", 1000# X 0.1#	DATA TYPE:	FOUND-LEFT
SERIAL NUMBER:	151585	TEMP / HUMIDITY:	52.0 °F / 45 %RH
LOCATION:	NORTH WALL	SERVICE SITE:	ON-SITE
PROCEDURE NAME:	NIST HANDBOOK 44,LBS,2 STDs	CALIBRATED BY:	SZUCS
		APPROVED BY:	

Unless Otherwise Noted: OCS Technologies, Inc. certifies that the above listed instrument has been tested using standards that are traceable to the International System of Units (SI) through the National Institute of Standards & Technology (NIST) or through another National Metrology Institute (NMI). The item tested meets or exceeds all specifications as stated in the referenced procedure solely at the time of calibration. Measurement uncertainty if reported has been calculated at k=2 providing a 95% confidence interval and has been excluded from the Pass/Fail Result above. OCS is ISO/IEC 17025 accredited by the Laboratory Accreditation Bureau. Calibration performed in accordance with ISO 17025:2005 and ISO 10012:2003. This report may only be reproduced in full. Temperature and Humidity for on-site work may be reported above as the mean of high and low values recorded for all items on the day of service. If the data type is FOUND-LEFT then the As Found and As Left data are the same.

Remarks:

Standards Used

Asset	Traceable Through	Description	Cal Date	Cal Due Date
909B	CERT#:2013-151	RICE LAKE CLASS F 50# AND 25# WEIGHTS (525# TOTAL)	26 Mar 2013	26 Mar 2015
909A	CERT#:2013-158	RICE LAKE CLASS F 1000# TEST WEIGHTS (2000# TOTAL)	27 Mar 2013	27 Mar 2015

Test Results

Test Description	Range	True Value	Test Result	Lower Limit	Upper Limit	%TOL	Status
TESTED IN ACCORDANCE WITH NIST Handbook 44-Current Rev							
Section 2.20 Paragraphs N1.1, N1.3, N1.11, N.2,N.3.2							
T.N.5 & Tables 4, T.11, 7A as Applicable.							

REPEATABILITY VERIFICATION:

Result of Operator Evaluation

Pass

SHIFT TEST VERIFICATION:

Result of Operator Evaluation

Pass

LINEARITY:

Weight	True Value	Test Result	Lower Limit	Upper Limit	%TOL	Status
100.00 lbs	100.00	100.0	99.8	100.2	0	Pass
200.00 lbs	200.00	200.0	199.8	200.2	0	Pass
300.00 lbs	300.00	300.0	299.7	300.3	0	Pass
500.00 lbs	500.00	500.0	499.5	500.5	0	Pass
1000.00 lbs	1000.00	1000.0	999.5	1000.5	0	Pass

Uncertainty of Measurement is +/- 0.14 LBS

Certificate # 8C4EAE9C606BE045ABB089DB836C2298

Date Printed: 01 Dec 2014

Form No.: 133 Rev 04/2014

Page 1 of 1

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	PC COMPUTER
MANUFACTURER:	Dell
MODEL NUMBER:	Inspiron 530s DCSLF
SERIAL NUMBER:	CYY5FH1 28234598293
DATE PURCHASED:	----
SPECIFICATION, CAPACITY, ETC.	DATA LOGGING
CALIBRATION INTERVAL IN MONTHS:	NOT REQUIRED TO BE CALIBRATED
LAST CALIBRATED:	N/A
CALIBRATION DUE DATE:	N/A
INSTRUMENT SERVICE COMPANY:	N/A

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	DATA LOGGER
MANUFACTURER:	I-O Tech
MODEL NUMBER:	Personal DAQ/56
SERIAL NUMBER:	271366
DATE PURCHASED:	16-May-2006
SPECIFICATION, CAPACITY, ETC.	DATA LOGGING
CALIBRATION INTERVAL IN MONTHS:	NOT REQUIRED TO BE CALIBRATED
LAST CALIBRATED:	N/A
CALIBRATION DUE DATE:	N/A
INSTRUMENT SERVICE COMPANY:	N/A



IOtech, Inc
25971 Cannon Road
Cleveland, OH 44146-1833
440-439-4091 www.iotech.com



Certificate of Calibration

Date: 5/9/06

Model Number: Personal Daq/56

Serial Number: 271366

Standard(s): 3765018 - Fluke 5440B Calibrator
US37000958 - HP34970A Switching Unit
80105 - Omega TRC3 Ice Point Cell

This notification certifies that the instrument described above has been inspected and tested in accordance with specifications published by the manufacturer.

The measurements standards and instruments used during the calibration are traceable to National and/or International Standards administered by NIST or EUROMET members, or as derived from accepted values of natural physical constants. Evidence of traceability is maintained on file.

Calibration of IOtech products is performed utilizing a quality system registered to ISO9001.

Ed Ciehanoski
Production Supervisor

PR-3 - Rev. 04-06

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	DATA LOGGER
MANUFACTURER:	I-O Tech
MODEL NUMBER:	PDQ2
SERIAL NUMBER:	268839
DATE PURCHASED:	16-May-2006
SPECIFICATION, CAPACITY, ETC.	DATA LOGGING
CALIBRATION INTERVAL IN MONTHS:	NOT REQUIRED TO BE CALIBRATED
LAST CALIBRATED:	N/A
CALIBRATION DUE DATE:	N/A
INSTRUMENT SERVICE COMPANY:	N/A

Certificate of Calibration

Date: 3/17/06

Model Number: PDQ2

Serial Number: 268839

This notification certifies that the instrument described above has been inspected and tested in accordance with specifications published by the manufacturer.

The standards used in the calibration of this instrument are traceable to the National Institute of Standards and Technology (NIST) and are calibrated at planned intervals. Evidence of traceability is on file at IOtech.

Calibration of IOtech products is performed utilizing a quality system registered to ISO9001.

Standard(s): 4615016 - Fluke 5440B Calibrator
US37000958 - HP34970A Switching Unit
40403 - Omega TRC3 Ice Point Cell

Edward Ciechanoski

Ed Ciechanoski
Production Supervisor



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PR-3 - Rev. 09/03

GCI 382

TEST EQUIPMENT CALIBRATION FORM

TYPE OF INSTRUMENT:	PSYCHRO-DYNE
MANUFACTURER:	COLE-PALMER INSTRUMENT CO.
MODEL NUMBER:	3312-20
SERIAL NUMBER:	(GCI Instr. # 308)
DATE PURCHASED:	1992
SPECIFICATION, CAPACITY, ETC.	MEASURES RELATIVE HUMIDITY
CALIBRATION INTERVAL IN MONTHS:	Verification via Equipment of Appendix A
LAST CALIBRATED:	N/A
CALIBRATION DUE DATE:	As Used
INSTRUMENT SERVICE COMPANY:	COLE-PALMER

Date: June 18, 2015

Form I. NO2 CONVERTER EFFICIENCY TEST. Must Be Performed Monthly

ANALYZER CALIBRATION

	Value (PPM)	Analyzer Reading (PPM)
Zero Gas (N ₂)	<u>0</u>	<u>0.00</u>
Span Gas (NO)	<u>26.66</u>	<u>26.70</u>

CONVERTER TEST

	Time (Min)	Analyzer Reading (PPM)
Start	<u>0:01:00</u>	<u>15.25</u>
Max Reading	<u>0:03:00</u>	<u>15.26</u>
Finish	<u>0:30:00</u>	<u>15.09</u>

Results: PASS 98.9%

If the final analyzer reading is more than 2% less than the maximum analyzer reading, the converter must be repaired or replaced.

Tom Wat
General Manager
Gas Consultants, Inc.

Date: May 18, 2015

Form I. NO2 CONVERTER EFFICIENCY TEST. Must Be Performed Monthly

ANALYZER CALIBRATION

	Value (PPM)	Analyzer Reading (PPM)
Zero Gas (N ₂)	<u>0</u>	<u>0.00</u>
Span Gas (NO)	<u>26.66</u>	<u>26.71</u>

CONVERTER TEST

	Time (Min)	Analyzer Reading (PPM)
Start	<u>0:01:00</u>	<u>15.50</u>
Max Reading	<u>0:00:20</u>	<u>15.52</u>
Finish	<u>0:30:00</u>	<u>15.37</u>

Results: PASS 99.0%

If the final analyzer reading is more than 2% less than the maximum analyzer reading, the converter must be repaired or replaced.

Tom Wat
General Manager
Gas Consultants, Inc.

APPENDIX B

Test Results for:

SSB512

High & Intermediate Run#: 1

Date: June 22, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Maximum Rate

Input Rate = 488,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	82.6	84.4	°F
Relative Humidity	53	53	%
Barometer	28.97	28.97	in.Hg
Heating Value	1089	1089	BTU/ft ³
Inlet Pressure	13.3	13.3	in.w.c.
Manifold Pressure	0.10	0.1	in.w.c.
Gas Meter Reading	3085.32	3315.34	ft ³
Gas Temperature	82.0	82.0	°F
Water Meter Reading	690415.20	690675.3	gal

Mass	2166.3	lb
Di	8.329	lb/gal
Dn	8.240	lb/gal

Tin	70.2	°F
Tdel	179.1	°F

Calculations		
Test Start	2:26:00	h:mm:ss
Test End	2:56:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	479,838	BTU/hr
Cf	1.100	no units
Ho	235,440	BTU
Uncorrected Volume	230.02	ft ³
Pressure Correction	0.998	no units
Meter Correction	1.000	no units
Temperature Correction	0.959	no units
F	220.31	ft ³
C	8.8	%
P	15.0	ppm

N = 9.1 ng/J
17.4 ppm @ 3% O₂

Date: June 22, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Intermediate Rate

Input Rate = 244,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	83.6	84.2	°F
Relative Humidity	53	53	%
Barometer	28.97	28.97	in.Hg
Heating Value	1089	1089	BTU/ft ³
Inlet Pressure	9.2	9.2	in.w.c.
Manifold Pressure	0.1	0.1	in.w.c.
Gas Meter Reading	3520.05	3638.16	ft ³
Gas Temperature	83.0	83.0	°F
Water Meter Reading	690918.30	691048.70	gal

Mass	1086.1	lb
Di	8.329	lb/gal
Dn	8.241	lb/gal

Tin	69.7	°F
Tdel	178.9	°F

Calculations		
Test Start	3:31:00	h:mm:ss
Test End	4:01:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	243,451	BTU/hr
Cf	1.100	no units
Ho	118,369	BTU
Uncorrected Volume	118.11	ft ³
Pressure Correction	0.988	no units
Meter Correction	1.000	no units
Temperature Correction	0.958	no units
F	111.78	ft ³
C	8.8	%
P	15.8	ppm

N = 9.7 ng/J
18.4 ppm @ 3% O₂

Date: June 22, 2015

High & Intermediate Run#: 1

Manufacturer: RIELLO
Model No.: SSB512
Serial No.: NONE

Analytic Ranges

NOx = 30 ppm
CO2 = 10 %
CO = 1000 ppm

Pretest Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)	
NOx Zero	0	0.00			0.00	0.07			-0.23
NOx Low	6.95	6.82			0.43	6.73			0.73
NOx Mid	14.56	14.53			0.10	14.21			1.17
NOx High	26.66	26.68			-0.07				
CO2 Zero	0		0.00		0.00		0.01		-0.10
CO2 Low	2.594		2.56		0.34		2.56		0.34
CO2 Mid	5.007		5.00		0.07		4.99		0.17
CO2 High	9.488		9.49		-0.02				
CO Zero	0			0	0.00			0	0.00
CO Low	249.0			242	0.67			237	1.15
CO Mid	502.5			501	0.10			495	0.79
CO High	976			976	0.03				

Post Test Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)	System Drift (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)		
NOx Zero	0	0.04			-0.13	0.29			-0.97	0.73
NOx Low	6.95	6.77			0.60	6.70			0.83	-0.10
NOx Mid	14.56	14.30			0.87	14.07			1.63	-0.47
NOx High	26.66	26.28			1.27					
CO2 Zero	0		0.00		0.00		0.00		0.00	-0.10
CO2 Low	2.594		2.56		0.34		2.56		0.34	0.00
CO2 Mid	5.007		4.99		0.17		4.98		0.27	-0.10
CO2 High	9.488		9.49		-0.02					
CO Zero	0			0	0.00			0.0	0.00	0.00
CO Low	249.0			236	1.27			231	1.80	-0.64
CO Mid	502.5			493	0.96			486	1.65	-0.86
CO High	976			964	1.21					

Calibration Linearity

NOx Pretest	0.136
CO2 Pretest	0.081
CO Pretest	0.089

NOx Post Test	0.102
CO2 Post Test	0.181
CO Post Test	0.340

Gas Cylinders

Cylinder #	Concentration
EB0018049	Low NOX = 6.95 ppm
CC100400	Mid NOX = 14.56 ppm
CC267435	High NOX = 26.66 ppm
CC129082	CO2 Low = 2.594 %
	CO Low = 249 ppm
CC25693	CO2 Mid = 5.007 %
	CO Mid = 502.5 ppm
CC353963	CO2 High = 9.488 %
	CO High = 976 ppm

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	81.5	69.3	60.8	0.0	0.00	0.0	
15	81.2	45.7	45.1	0.0	0.00	0.0	
30	81.1	45.6	44.9	12.2	0.23	0.0	
45	81.6	45.8	45.1	1.7	0.00	0.0	
60	81.4	46.0	43.8	0.0	0.00	0.0	Start Zero IN
75	81.5	45.8	43.8	0.0	0.00	0.0	
90	81.3	47.1	46.4	0.0	0.00	0.0	
105	81.1	45.9	45.2	0.0	0.00	0.0	
120	81.1	46.7	45.5	0.0	0.00	0.0	
135	81.3	45.5	45.2	0.0	0.00	0.0	
150	80.8	46.0	44.9	0.0	0.00	0.0	
165	80.9	45.7	45.2	0.0	0.00	0.0	
180	81.2	46.6	44.6	0.0	0.00	0.0	
195	81.2	45.8	44.6	0.0	0.00	0.0	
210	81.2	45.3	44.9	0.0	0.00	0.0	
225	81.4	50.5	33.6	0.0	0.00	0.0	
240	81.6	46.6	45.4	0.0	0.00	0.0	
255	81.5	46.4	45.1	0.0	0.00	0.0	
270	81.2	45.4	44.2	0.0	0.00	0.0	
285	81.4	45.0	46.0	0.0	0.00	0.0	
300	81.4	45.9	45.5	0.0	0.00	0.0	
315	81.3	46.1	44.7	0.0	0.00	0.0	
330	81.3	44.9	45.3	0.0	0.00	0.0	
345	81.4	46.3	44.5	0.0	0.00	0.0	
360	81.8	46.8	45.9	0.0	0.00	0.0	Analyzer Zero IN
375	81.6	45.4	45.0	0.0	0.00	0.0	
390	81.1	46.0	45.5	0.0	0.00	0.0	
405	81.0	46.1	43.9	699.5	7.87	0.0	
420	82.0	45.8	44.4	946.4	9.38	12.6	
435	81.6	46.4	45.3	964.6	9.44	25.3	
450	81.3	46.2	45.1	969.9	9.46	25.9	
465	81.2	45.4	44.2	971.0	9.46	25.9	
480	81.0	45.9	44.9	971.5	9.47	26.0	
495	81.4	45.9	44.3	972.0	9.47	25.9	
510	81.2	45.4	45.0	971.9	9.47	25.9	
525	81.0	45.6	45.3	972.0	9.47	25.9	
540	81.7	45.9	45.2	1050.3	9.47	25.9	Start High Span IN
555	81.9	46.7	45.4	975.2	9.49	25.9	
570	80.7	46.3	45.0	975.2	9.49	26.7	
585	80.5	44.7	45.1	975.2	9.49	26.7	
600	80.7	46.9	46.1	975.2	9.49	26.8	
615	80.9	45.9	45.4	975.8	9.49	26.8	
630	81.0	45.6	44.9	975.2	9.49	26.8	
645	81.3	44.7	44.1	975.8	9.49	26.6	
660	81.2	45.9	43.9	975.8	9.49	26.7	
675	81.2	46.5	45.2	975.8	9.49	26.7	
690	81.3	47.3	46.6	975.2	9.49	26.7	
705	81.2	46.2	45.5	975.7	9.49	26.7	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	80.7	45.6	44.3	975.7	9.49	26.7	
735	0:12:15	81.2	45.3	45.1	975.8	9.49	26.7	
750	0:12:30	81.6	45.3	43.6	975.7	9.49	26.7	
765	0:12:45	81.0	44.7	43.9	975.7	9.49	26.7	
780	0:13:00	81.4	46.1	45.1	975.7	9.49	26.7	
795	0:13:15	81.3	44.7	44.5	975.8	9.49	26.7	
810	0:13:30	81.6	45.3	44.3	975.7	9.49	26.7	
825	0:13:45	81.5	46.3	44.9	975.2	9.49	26.7	
840	0:14:00	81.7	44.9	44.2	975.7	9.49	26.7	Analyzer High Span IN
855	0:14:15	81.2	45.7	44.6	975.7	9.49	26.7	
870	0:14:30	81.2	44.1	44.6	960.1	9.49	26.7	
885	0:14:45	81.4	45.7	44.7	571.6	5.05	26.7	
900	0:15:00	81.5	45.9	45.2	510.4	5.00	20.7	
915	0:15:15	81.7	45.7	45.3	504.2	5.00	14.7	
930	0:15:30	81.8	45.3	44.6	502.5	5.00	14.5	
945	0:15:45	81.8	44.5	43.7	502.0	5.00	14.5	
960	0:16:00	81.4	44.9	44.7	501.5	5.00	14.5	
975	0:16:15	81.6	45.6	44.6	501.5	5.00	14.5	
990	0:16:30	81.9	44.7	44.7	501.5	5.00	14.5	
1005	0:16:45	81.7	44.5	43.9	501.5	5.00	14.5	
1020	0:17:00	81.8	45.2	45.0	501.5	5.00	14.5	Start Mid Span IN
1035	0:17:15	81.8	45.9	46.0	501.5	5.00	14.5	
1050	0:17:30	81.4	45.0	44.6	501.5	5.00	14.4	
1065	0:17:45	81.3	45.4	44.4	501.5	5.00	14.4	
1080	0:18:00	81.4	46.6	45.3	501.5	5.00	14.5	
1095	0:18:15	81.8	49.2	44.2	501.5	5.00	14.5	
1110	0:18:30	82.0	45.1	44.6	501.5	5.00	14.5	
1125	0:18:45	81.9	45.6	45.4	501.5	5.00	14.5	
1140	0:19:00	81.9	44.9	44.8	501.5	5.00	14.5	
1155	0:19:15	81.9	46.5	45.0	501.5	5.00	14.5	
1170	0:19:30	81.7	47.0	42.1	501.5	5.00	14.5	
1185	0:19:45	81.8	45.3	44.5	501.5	5.00	14.5	
1200	0:20:00	81.9	45.6	43.8	501.5	5.00	14.5	
1215	0:20:15	81.9	46.8	44.4	501.5	5.00	14.4	
1230	0:20:30	81.8	45.0	42.2	501.5	5.00	14.4	
1245	0:20:45	81.6	45.1	44.8	501.5	5.00	14.4	
1260	0:21:00	81.2	45.2	44.2	501.5	5.00	14.5	
1275	0:21:15	81.0	45.1	44.2	501.5	5.00	14.5	
1290	0:21:30	80.8	45.3	44.6	501.5	5.00	14.5	
1305	0:21:45	80.6	45.5	45.1	501.5	5.00	14.5	
1320	0:22:00	80.5	46.3	45.1	501.5	5.00	14.5	Analyzer Mid Span IN
1335	0:22:15	80.1	46.1	44.5	501.5	5.00	14.5	
1350	0:22:30	80.4	45.5	44.5	501.5	5.00	14.5	
1365	0:22:45	80.4	44.4	43.5	501.5	4.99	14.5	
1380	0:23:00	80.6	45.7	42.5	501.0	4.99	14.3	
1395	0:23:15	81.1	44.4	42.8	501.5	5.00	14.0	
1410	0:23:30	81.2	45.4	44.5	307.8	2.90	14.7	
1425	0:23:45	80.9	45.8	44.1	249.8	2.59	10.2	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	81.2	45.2	43.6	244.4	2.57	5.6	
1455	0:24:15	81.5	45.6	44.6	242.8	2.56	5.5	
1470	0:24:30	81.7	45.5	44.9	242.3	2.56	6.3	
1485	0:24:45	82.1	44.7	31.3	242.3	2.56	6.5	
1500	0:25:00	81.5	45.7	45.3	242.3	2.56	6.7	Start Low Span IN
1515	0:25:15	81.5	45.0	44.2	242.3	2.56	6.8	
1530	0:25:30	81.0	45.9	44.9	241.7	2.56	6.9	
1545	0:25:45	80.6	45.9	45.4	241.7	2.56	6.9	
1560	0:26:00	80.3	45.6	44.4	241.7	2.56	6.9	
1575	0:26:15	80.0	46.2	44.8	241.7	2.56	6.9	
1590	0:26:30	79.9	45.4	44.7	241.7	2.56	6.8	
1605	0:26:45	80.1	46.2	45.2	242.3	2.56	6.8	
1620	0:27:00	80.5	46.4	45.1	241.7	2.56	6.8	
1635	0:27:15	80.6	45.7	44.3	242.3	2.56	6.8	
1650	0:27:30	81.0	46.0	44.0	242.3	2.56	6.8	
1665	0:27:45	80.8	45.9	44.8	242.0	2.56	6.8	
1680	0:28:00	80.5	46.1	44.7	241.7	2.56	6.8	
1695	0:28:15	80.5	45.4	44.7	241.7	2.56	6.8	
1710	0:28:30	80.7	45.7	44.6	241.8	2.56	6.9	
1725	0:28:45	81.2	45.9	44.2	241.7	2.56	6.9	Analyzer Low Span IN
1740	0:29:00	81.9	45.6	44.9	242.3	2.56	6.9	
1755	0:29:15	81.6	46.3	45.1	242.3	2.56	6.8	
1770	0:29:30	81.7	44.7	44.2	242.3	2.56	6.8	
1785	0:29:45	81.6	46.1	45.0	242.3	2.56	6.8	
1800	0:30:00	81.8	47.0	46.2	242.3	2.56	6.8	
1815	0:30:15	81.5	45.8	44.9	242.3	2.56	6.8	
1830	0:30:30	81.5	45.9	45.4	242.3	2.56	6.8	
1845	0:30:45	81.1	45.1	43.3	242.3	2.56	6.8	
1860	0:31:00	81.1	44.9	45.1	241.7	2.56	6.7	
1875	0:31:15	80.9	45.0	45.1	241.8	2.56	6.7	
1890	0:31:30	81.4	45.6	44.4	242.3	2.56	6.9	
1905	0:31:45	81.4	45.5	44.5	147.7	1.90	6.9	
1920	0:32:00	81.2	45.9	45.0	16.4	0.09	3.6	Start Zero Bias IN
1935	0:32:15	81.6	44.9	44.2	3.3	0.04	0.4	
1950	0:32:30	81.5	45.4	45.1	0.1	0.02	0.2	
1965	0:32:45	81.1	46.5	45.5	0.0	0.02	0.2	
1980	0:33:00	80.8	46.1	45.2	0.0	0.02	0.1	
1995	0:33:15	81.3	46.7	45.5	0.0	0.01	0.1	
2010	0:33:30	81.7	46.0	44.8	0.0	0.01	0.1	
2025	0:33:45	81.2	45.4	44.7	0.0	0.01	0.1	
2040	0:34:00	81.0	46.1	45.8	0.0	0.02	0.1	
2055	0:34:15	80.9	46.1	43.9	0.0	0.01	0.1	
2070	0:34:30	81.1	46.1	45.1	0.0	0.01	0.1	
2085	0:34:45	81.9	45.7	44.4	0.0	0.01	0.1	
2100	0:35:00	82.0	46.6	44.8	0.0	0.01	0.1	
2115	0:35:15	81.8	45.2	44.3	0.0	0.01	0.1	
2130	0:35:30	81.7	45.9	45.1	0.0	0.01	0.1	
2145	0:35:45	81.4	45.5	44.0	0.0	0.01	0.1	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	82.1	45.2	44.8	0.0	0.01	0.1	
2175	0:36:15	81.9	45.3	45.2	0.0	0.01	0.1	
2190	0:36:30	81.4	46.0	46.1	0.0	0.01	0.1	
2205	0:36:45	81.5	46.6	44.3	0.0	0.01	0.1	
2220	0:37:00	81.2	45.5	44.6	0.0	0.01	0.1	
2235	0:37:15	81.5	44.6	45.3	0.0	0.01	0.1	
2250	0:37:30	81.4	46.0	45.1	0.0	0.01	0.1	
2265	0:37:45	81.2	45.2	44.7	0.0	0.01	0.1	
2280	0:38:00	80.9	45.4	44.2	0.0	0.01	0.1	System Zero IN
2295	0:38:15	80.9	46.0	44.7	0.0	0.01	0.1	
2310	0:38:30	81.2	45.2	44.5	0.0	0.01	0.1	
2325	0:38:45	81.5	45.6	32.0	0.0	0.01	0.1	
2340	0:39:00	82.2	45.4	45.0	0.0	0.01	0.1	
2355	0:39:15	82.1	45.8	44.5	0.0	0.03	0.1	
2370	0:39:30	82.3	44.5	44.2	348.2	3.98	0.1	
2385	0:39:45	82.4	46.0	44.7	477.3	4.86	0.1	
2400	0:40:00	82.5	45.1	44.4	488.2	4.94	0.1	
2415	0:40:15	82.4	45.5	44.8	492.1	4.96	0.1	
2430	0:40:30	82.2	45.2	44.2	493.5	4.97	0.1	
2445	0:40:45	82.0	45.6	45.0	494.1	4.97	0.1	
2460	0:41:00	81.5	45.4	44.1	494.6	4.97	0.1	Start Mid CO/CO2 Bias IN
2475	0:41:15	82.3	46.2	44.6	494.6	4.97	0.1	
2490	0:41:30	82.5	45.8	45.2	494.6	4.97	0.1	
2505	0:41:45	82.4	45.7	44.4	494.6	4.98	0.1	
2520	0:42:00	82.3	45.9	44.9	494.6	4.98	0.1	
2535	0:42:15	82.2	46.2	45.3	494.6	4.98	0.1	
2550	0:42:30	81.9	46.4	44.8	494.6	4.98	0.1	
2565	0:42:45	81.4	45.5	44.4	494.6	4.98	0.1	
2580	0:43:00	81.8	46.0	45.3	494.6	4.98	0.1	
2595	0:43:15	82.0	45.7	44.6	494.6	4.98	0.0	
2610	0:43:30	82.4	46.2	44.9	495.1	4.98	0.1	
2625	0:43:45	82.5	45.8	44.8	494.6	4.98	0.0	
2640	0:44:00	82.9	45.9	44.4	494.6	4.98	0.0	
2655	0:44:15	84.4	45.8	45.1	494.6	4.98	0.0	
2670	0:44:30	84.4	46.3	44.8	494.6	4.98	0.0	
2685	0:44:45	83.0	46.5	45.3	494.6	4.98	0.0	
2700	0:45:00	82.7	45.8	45.0	494.6	4.99	0.0	
2715	0:45:15	82.3	45.7	44.7	494.6	4.99	0.0	
2730	0:45:30	83.9	45.8	44.7	494.6	4.99	0.0	
2745	0:45:45	82.8	45.8	44.5	494.6	4.99	0.0	
2760	0:46:00	82.2	45.2	44.4	494.6	4.99	0.0	System Mid CO/CO2 IN
2775	0:46:15	82.3	45.7	45.0	494.6	4.99	0.1	
2790	0:46:30	81.9	44.9	44.3	494.6	4.99	0.0	
2805	0:46:45	81.8	44.9	43.4	490.6	4.99	0.0	
2820	0:47:00	82.0	46.2	45.3	117.4	0.98	0.1	
2835	0:47:15	81.9	47.0	45.3	18.7	0.14	0.1	
2850	0:47:30	82.2	46.1	45.4	189.8	2.30	0.1	
2865	0:47:45	81.8	46.1	45.1	229.5	2.53	0.1	

Manufacturer: RIELLO
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Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	81.6	45.1	43.5	235.0	2.55	0.0	
2895	0:48:15	81.4	18.9	-0.3	237.0	2.56	0.0	
2910	0:48:30	81.4	48.1	81.4	237.5	2.56	0.0	
2925	0:48:45	81.5	81.5	81.6	238.0	2.56	0.0	
2940	0:49:00	81.8	81.4	81.5	238.0	2.56	0.0	Start Low CO/CO2 Bias IN
2955	0:49:15	81.8	81.5	81.6	238.0	2.56	0.0	
2970	0:49:30	82.0	81.4	81.6	237.5	2.56	0.0	
2985	0:49:45	82.0	81.5	81.6	238.0	2.56	0.0	
3000	0:50:00	82.1	81.4	81.6	238.0	2.56	0.0	
3015	0:50:15	81.9	81.5	81.6	237.5	2.56	0.0	
3030	0:50:30	82.0	81.5	81.6	237.5	2.56	0.0	
3045	0:50:45	82.3	81.5	81.6	237.5	2.56	0.0	
3060	0:51:00	82.4	81.5	81.6	237.5	2.56	0.0	
3075	0:51:15	82.1	81.5	81.7	237.5	2.56	0.0	
3090	0:51:30	82.0	81.5	81.6	237.5	2.56	0.0	
3105	0:51:45	81.8	81.5	81.7	237.5	2.56	0.0	
3120	0:52:00	81.8	81.5	81.7	237.5	2.56	0.0	
3135	0:52:15	81.7	81.5	81.7	237.5	2.56	0.0	
3150	0:52:30	81.6	81.5	81.7	237.5	2.56	0.0	
3165	0:52:45	82.1	81.5	81.7	237.5	2.56	0.0	
3180	0:53:00	82.3	81.5	81.8	237.5	2.56	0.0	
3195	0:53:15	82.0	81.5	81.7	237.5	2.56	0.0	
3210	0:53:30	81.6	81.5	81.7	237.5	2.56	0.0	
3225	0:53:45	81.9	81.5	81.8	237.5	2.56	0.0	System Low CO/CO2 IN
3240	0:54:00	82.1	81.5	81.8	237.5	2.56	0.0	
3255	0:54:15	82.4	81.5	81.7	237.5	2.56	0.0	
3270	0:54:30	82.5	81.5	81.8	237.5	2.56	0.0	
3285	0:54:45	82.3	81.6	81.8	99.1	1.20	0.0	
3300	0:55:00	82.1	81.5	81.8	10.2	0.11	0.1	
3315	0:55:15	82.1	81.5	81.8	1.2	0.02	0.1	
3330	0:55:30	82.3	81.5	81.8	0.0	0.00	12.1	
3345	0:55:45	82.2	81.6	81.8	0.0	0.00	13.0	
3360	0:56:00	82.5	81.5	81.8	0.0	0.00	13.9	
3375	0:56:15	82.4	81.5	81.9	0.0	0.00	13.9	
3390	0:56:30	82.2	81.5	81.8	0.0	0.00	14.0	
3405	0:56:45	82.3	81.6	81.9	0.0	0.00	14.0	
3420	0:57:00	81.9	81.6	81.9	0.0	0.00	14.0	Start Mid NOx Bias IN
3435	0:57:15	81.8	81.6	81.9	0.0	0.00	14.0	
3450	0:57:30	82.1	81.6	81.9	0.0	0.00	14.1	
3465	0:57:45	82.0	81.6	81.9	0.0	0.00	14.1	
3480	0:58:00	82.4	81.6	81.9	0.0	0.00	14.2	
3495	0:58:15	82.1	81.7	81.9	0.0	0.00	14.2	
3510	0:58:30	82.3	81.6	82.0	0.0	0.00	14.2	
3525	0:58:45	82.4	81.6	81.9	0.0	0.00	14.2	
3540	0:59:00	82.2	81.7	81.9	0.0	0.00	14.2	
3555	0:59:15	82.3	81.6	82.0	0.0	0.01	14.2	
3570	0:59:30	82.2	81.6	81.9	0.0	0.01	14.1	
3585	0:59:45	82.1	81.6	82.0	0.0	0.01	14.1	

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Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	82.0	81.6	82.0	0.0	0.01	14.1	
3615	1:00:15	82.3	81.7	82.0	0.0	0.01	14.1	
3630	1:00:30	82.3	81.6	82.0	0.0	0.01	14.1	
3645	1:00:45	82.2	81.7	82.0	0.0	0.01	14.1	
3660	1:01:00	82.1	81.6	82.0	0.0	0.01	14.2	
3675	1:01:15	82.3	81.6	82.0	0.0	0.01	14.2	
3690	1:01:30	82.6	81.6	82.0	0.0	0.01	14.2	
3705	1:01:45	82.3	81.7	82.1	0.0	0.01	14.2	
3720	1:02:00	82.2	81.7	82.0	0.0	0.01	14.2	System Mid NOx IN
3735	1:02:15	82.3	81.6	82.1	0.0	0.01	14.2	
3750	1:02:30	82.6	81.7	82.0	0.0	0.02	14.1	
3765	1:02:45	82.8	81.7	82.1	0.0	0.02	14.1	
3780	1:03:00	82.8	81.7	82.1	0.0	0.02	14.1	
3795	1:03:15	82.8	81.7	82.1	0.0	0.02	14.1	
3810	1:03:30	82.8	81.7	82.1	0.0	0.02	14.1	
3825	1:03:45	82.5	81.7	82.0	0.0	0.02	14.1	
3840	1:04:00	82.4	81.8	82.2	0.0	0.02	7.5	
3855	1:04:15	82.5	81.8	82.2	0.0	0.02	1.0	
3870	1:04:30	82.4	81.8	82.2	0.0	0.02	0.5	
3885	1:04:45	82.4	81.8	82.1	0.0	0.02	3.5	
3900	1:05:00	82.0	81.8	82.2	0.0	0.02	6.5	Start Low NOx Bias IN
3915	1:05:15	82.2	81.8	82.2	0.0	0.03	6.6	
3930	1:05:30	82.5	81.8	82.1	0.0	0.03	6.6	
3945	1:05:45	82.7	81.9	82.2	0.0	0.03	6.7	
3960	1:06:00	82.7	81.8	82.2	0.0	0.03	6.7	
3975	1:06:15	82.5	81.8	82.3	0.0	0.03	6.7	
3990	1:06:30	82.7	81.9	82.3	0.0	0.03	6.7	
4005	1:06:45	82.6	81.9	82.2	0.0	0.03	6.7	
4020	1:07:00	82.8	81.8	82.3	0.0	0.03	6.7	
4035	1:07:15	82.7	81.9	82.3	0.0	0.03	6.7	
4050	1:07:30	82.4	81.9	82.3	0.0	0.03	6.7	
4065	1:07:45	82.5	78.5	79.3	0.0	0.03	6.7	
4080	1:08:00	82.6	76.2	77.6	0.0	0.03	6.7	
4095	1:08:15	82.5	77.9	76.7	0.0	0.04	6.7	
4110	1:08:30	82.2	78.3	76.3	0.0	0.04	6.7	
4125	1:08:45	82.4	77.8	76.2	0.0	0.04	6.7	
4140	1:09:00	82.4	76.6	76.0	0.0	0.04	6.7	
4155	1:09:15	82.6	75.4	75.9	0.0	0.04	6.7	
4170	1:09:30	82.4	74.5	75.8	0.0	0.04	6.7	
4185	1:09:45	82.7	74.0	75.7	0.0	0.04	6.7	
4200	1:10:00	82.5	73.5	75.7	0.0	0.04	6.7	System Low NOx IN
4215	1:10:15	82.4	73.2	75.7	0.0	0.04	6.7	
4230	1:10:30	82.0	73.0	75.6	0.0	0.04	6.7	
4245	1:10:45	82.0	72.9	75.6	0.0	0.04	6.7	
4260	1:11:00	83.0	72.9	75.7	0.0	0.04	6.6	
4275	1:11:15	83.7	72.9	75.9	0.0	0.05	6.5	
4290	1:11:30	84.0	72.9	75.9	0.0	0.05	5.2	
4305	1:11:45	84.4	72.9	76.2	0.0	0.05	3.9	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
4320	1:12:00	84.5	73.0	76.5	0.0	0.05	3.4
4335	1:12:15	84.8	73.1	76.8	0.0	0.05	4.2
4350	1:12:30	85.0	73.2	77.0	0.0	0.05	2.1
4365	1:12:45	84.9	73.3	77.1	0.0	0.05	1.3
4380	1:13:00	85.2	73.5	77.2	0.1	0.05	0.4
4395	1:13:15	85.8	73.6	77.3	0.6	0.08	0.4
4410	1:13:30	85.9	73.8	77.3	0.0	0.05	0.6
4425	1:13:45	87.6	74.2	76.6	0.0	0.05	0.4
4440	1:14:00	87.9	74.3	75.7	0.0	0.04	0.2
4455	1:14:15	86.5	74.2	74.9	0.0	0.04	0.1
4470	1:14:30	86.8	73.9	74.3	0.0	0.04	0.1
4485	1:14:45	86.5	73.7	74.3	0.0	0.04	0.1
4500	1:15:00	87.1	73.2	74.5	0.0	0.05	0.2
4515	1:15:15	88.2	72.8	74.6	0.0	0.05	0.2
4530	1:15:30	87.4	72.3	74.6	0.0	0.05	0.1
4545	1:15:45	87.3	71.8	74.5	0.1	0.06	0.2
4560	1:16:00	86.7	71.4	74.1	0.0	0.05	0.2
4575	1:16:15	87.0	70.9	73.7	0.1	0.05	0.2
4590	1:16:30	87.5	70.5	73.3	0.1	0.05	0.2
4605	1:16:45	87.2	70.0	72.8	1.2	0.06	0.2
4620	1:17:00	86.9	69.6	72.4	0.6	0.05	0.2
4635	1:17:15	86.7	69.3	72.0	1.2	0.05	0.2
4650	1:17:30	86.3	68.7	71.5	2.8	0.06	0.2
4665	1:17:45	86.0	68.4	71.0	3.3	0.06	0.2
4680	1:18:00	86.6	68.1	70.6	6.5	0.06	0.2
4695	1:18:15	86.7	67.7	70.2	7.6	0.05	0.2
4710	1:18:30	86.6	67.4	69.8	9.7	0.06	0.2
4725	1:18:45	87.7	67.1	69.4	11.3	0.06	0.2
4740	1:19:00	87.4	66.9	69.1	11.8	0.06	0.2
4755	1:19:15	87.3	66.6	68.7	11.8	0.06	0.2
4770	1:19:30	88.1	66.4	68.4	9.7	0.05	0.2
4785	1:19:45	87.6	66.1	68.1	9.7	0.06	0.2
4800	1:20:00	87.9	66.0	67.9	7.0	0.06	0.2
4815	1:20:15	85.7	65.8	67.6	4.4	0.07	0.2
4830	1:20:30	87.1	65.6	72.5	3.3	0.07	0.2
4845	1:20:45	86.8	65.5	100.0	910.4	2.83	0.2
4860	1:21:00	86.9	65.4	121.5	143.1	8.58	3.8
4875	1:21:15	87.2	65.2	127.5	44.8	8.83	7.4
4890	1:21:30	87.1	65.2	129.3	37.4	8.88	13.1
4905	1:21:45	87.7	65.0	129.9	34.2	8.88	13.9
4920	1:22:00	87.5	64.9	130.0	33.1	8.89	15.0
4935	1:22:15	86.8	64.8	129.5	32.6	8.90	15.3
4950	1:22:30	87.1	64.8	129.6	32.6	8.91	15.6
4965	1:22:45	87.5	64.7	129.5	32.6	8.92	15.8
4980	1:23:00	88.7	64.6	129.0	32.0	8.92	16.1
4995	1:23:15	88.6	64.6	128.7	32.0	8.93	16.3
5010	1:23:30	88.0	64.5	128.8	31.0	8.90	16.7
5025	1:23:45	87.7	64.4	128.6	31.0	8.91	16.5

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
5040	1:24:00	88.0	64.4	128.9	31.0	8.91	16.5	
5055	1:24:15	86.8	64.4	128.6	31.5	8.92	16.6	
5070	1:24:30	87.1	64.3	128.4	31.5	8.92	17.1	
5085	1:24:45	87.1	64.3	128.4	31.0	8.90	17.1	
5100	1:25:00	88.6	64.3	128.4	31.0	8.90	17.1	
5115	1:25:15	87.0	64.2	128.3	31.5	8.93	17.0	
5130	1:25:30	86.2	64.2	128.2	31.5	8.92	17.8	
5145	1:25:45	86.4	64.2	128.2	31.5	8.93	17.7	
5160	1:26:00	85.5	64.2	128.2	31.0	8.92	17.6	
5175	1:26:15	85.1	64.2	128.2	31.0	8.92	17.5	
5190	1:26:30	84.8	64.2	128.1	31.0	8.93	17.7	
5205	1:26:45	85.0	64.2	128.3	31.0	8.93	17.7	
5220	1:27:00	84.9	64.2	128.6	31.0	8.92	17.7	
5235	1:27:15	85.1	64.2	128.6	30.4	8.90	17.7	
5250	1:27:30	85.4	64.2	128.4	31.0	8.92	17.3	
5265	1:27:45	85.0	64.2	128.7	31.0	8.92	17.5	
5280	1:28:00	85.0	64.2	128.4	30.9	8.93	17.8	
5295	1:28:15	85.6	64.2	127.8	29.9	8.90	18.0	
5310	1:28:30	85.6	64.2	126.8	29.4	8.92	17.3	
5325	1:28:45	85.3	64.2	123.8	29.9	8.91	17.3	
5340	1:29:00	85.0	64.2	121.4	29.4	8.91	17.5	
5355	1:29:15	85.4	64.2	120.9	28.8	8.89	17.5	
5370	1:29:30	85.3	64.2	121.2	28.3	8.88	17.2	
5385	1:29:45	85.3	64.2	123.1	28.3	8.87	17.2	
5400	1:30:00	85.4	64.2	125.8	27.8	8.87	17.2	
5415	1:30:15	85.7	64.2	126.5	27.8	8.87	17.2	
5430	1:30:30	85.7	64.2	126.9	28.3	8.89	17.2	
5445	1:30:45	85.9	64.2	127.0	28.3	8.89	17.2	
5460	1:31:00	85.8	64.1	126.8	28.3	8.89	17.3	
5475	1:31:15	85.7	64.1	126.7	28.3	8.90	17.4	
5490	1:31:30	85.7	64.2	126.9	27.8	8.89	17.3	
5505	1:31:45	85.9	64.1	127.1	27.8	8.89	17.3	
5520	1:32:00	85.5	64.0	127.1	27.8	8.87	17.2	
5535	1:32:15	85.9	64.1	127.1	27.8	8.88	17.0	
5550	1:32:30	85.6	64.0	127.0	27.2	8.86	17.0	
5565	1:32:45	85.9	64.0	126.9	26.7	8.85	16.9	
5580	1:33:00	85.8	64.1	126.8	26.7	8.85	16.7	
5595	1:33:15	85.1	64.1	126.8	26.7	8.86	16.7	
5610	1:33:30	84.7	64.1	126.9	26.7	8.84	16.9	
5625	1:33:45	84.2	64.1	131.6	26.2	8.84	16.7	
5640	1:34:00	84.7	64.1	108.1	23.5	7.57	16.4	
5655	1:34:15	85.6	64.2	81.0	2.7	0.45	16.2	
5670	1:34:30	85.2	64.2	71.9	0.0	0.17	2.8	
5685	1:34:45	84.2	64.3	68.7	0.0	0.11	2.6	
5700	1:35:00	83.9	64.2	90.1	203.5	0.10	2.1	
5715	1:35:15	83.5	64.3	127.8	278.9	7.86	2.0	
5730	1:35:30	83.2	64.4	159.3	78.7	8.68	8.8	
5745	1:35:45	82.8	64.4	172.4	71.4	8.77	11.1	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5760	1:36:00	83.3	64.4	177.6	68.2	8.76	13.9	
5775	1:36:15	83.7	64.4	180.1	67.1	8.76	14.3	
5790	1:36:30	83.9	64.4	181.2	67.7	8.79	14.5	
5805	1:36:45	84.2	64.4	182.0	66.6	8.79	14.6	
5820	1:37:00	84.7	64.4	182.8	67.1	8.79	14.7	
5835	1:37:15	84.3	64.4	183.1	67.7	8.79	14.7	
5850	1:37:30	84.3	64.4	182.1	68.2	8.80	14.9	
5865	1:37:45	83.5	64.4	179.7	67.7	8.79	15.1	
5880	1:38:00	82.9	64.4	179.2	67.1	8.79	15.1	
5895	1:38:15	82.8	64.4	178.6	66.6	8.77	14.9	
5910	1:38:30	82.9	65.1	175.5	66.1	8.75	14.8	
5925	1:38:45	83.1	67.2	172.0	65.1	8.75	14.8	
5940	1:39:00	83.3	71.2	171.0	65.2	8.75	14.7	
5955	1:39:15	83.4	72.8	171.4	66.1	8.77	14.6	
5970	1:39:30	83.4	73.5	171.8	66.1	8.77	14.9	
5985	1:39:45	83.6	73.6	174.3	65.5	8.76	14.8	
6000	1:40:00	83.5	72.1	176.7	66.1	8.78	14.9	
6015	1:40:15	83.5	72.0	178.3	66.1	8.77	14.9	
6030	1:40:30	83.3	71.2	179.5	66.1	8.77	14.9	
6045	1:40:45	83.4	71.1	180.0	65.5	8.76	14.9	
6060	1:41:00	83.4	71.3	179.9	66.6	8.80	14.9	
6075	1:41:15	84.5	71.3	179.1	67.1	8.80	14.9	
6090	1:41:30	84.1	71.3	178.7	66.6	8.78	15.2	
6105	1:41:45	83.9	71.2	178.8	66.6	8.77	15.1	
6120	1:42:00	83.8	71.2	178.4	68.2	8.80	15.2	
6135	1:42:15	83.8	71.2	178.4	67.1	8.78	15.3	
6150	1:42:30	83.9	71.3	178.4	67.1	8.78	15.1	
6165	1:42:45	84.1	71.3	178.4	66.1	8.77	15.1	
6180	1:43:00	84.3	71.2	178.2	66.1	8.78	15.0	
6195	1:43:15	84.3	71.2	178.3	66.1	8.77	15.0	
6210	1:43:30	83.8	71.2	178.4	66.6	8.79	15.0	
6225	1:43:45	83.9	71.2	178.3	66.6	8.79	15.1	
6240	1:44:00	84.0	71.2	178.2	67.1	8.79	15.1	
6255	1:44:15	83.7	71.2	178.3	67.1	8.81	15.0	
6270	1:44:30	83.7	71.2	178.3	66.6	8.79	15.2	
6285	1:44:45	84.2	71.2	178.3	66.6	8.79	15.2	
6300	1:45:00	83.8	71.1	178.4	67.1	8.79	15.1	
6315	1:45:15	83.3	71.1	178.1	66.6	8.78	15.1	
6330	1:45:30	84.2	71.1	177.9	67.1	8.80	15.0	
6345	1:45:45	83.7	71.0	178.3	66.6	8.79	15.1	
6360	1:46:00	83.7	71.1	178.0	66.6	8.80	15.2	
6375	1:46:15	83.4	71.1	178.0	67.1	8.81	15.1	
6390	1:46:30	83.6	71.1	178.1	66.6	8.80	15.3	
6405	1:46:45	83.7	71.1	178.2	67.1	8.80	15.2	
6420	1:47:00	83.4	71.1	178.1	68.2	8.81	15.2	
6435	1:47:15	83.0	71.1	178.2	67.7	8.80	15.3	
6450	1:47:30	83.9	71.1	177.8	67.1	8.80	15.3	
6465	1:47:45	84.2	71.0	177.8	67.1	8.80	15.3	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
6480	1:48:00	84.4	71.0	178.1	68.2	8.81	15.3	
6495	1:48:15	84.1	71.0	178.1	68.7	8.82	15.4	
6510	1:48:30	84.3	71.0	177.8	68.7	8.82	15.6	
6525	1:48:45	84.9	71.0	177.7	68.7	8.82	15.6	
6540	1:49:00	85.3	70.9	177.9	69.3	8.83	15.6	
6555	1:49:15	84.7	71.1	178.2	69.3	8.82	15.6	
6570	1:49:30	84.3	71.0	178.3	68.7	8.82	15.6	
6585	1:49:45	84.3	70.8	178.5	68.7	8.82	15.7	
6600	1:50:00	84.6	70.9	178.8	69.3	8.83	15.7	
6615	1:50:15	84.5	71.0	178.4	69.8	8.83	15.6	
6630	1:50:30	84.5	71.0	178.7	69.8	8.83	15.9	
6645	1:50:45	84.0	71.0	178.5	69.3	8.83	15.8	
6660	1:51:00	83.7	71.0	178.4	68.7	8.83	15.8	
6675	1:51:15	83.6	71.1	178.6	69.3	8.83	15.8	
6690	1:51:30	83.2	71.1	178.4	68.2	8.81	15.7	
6705	1:51:45	83.1	71.1	178.7	66.1	8.79	15.6	
6720	1:52:00	83.1	70.9	179.5	65.5	8.77	15.3	
6735	1:52:15	83.1	71.2	179.7	65.5	8.78	15.2	
6750	1:52:30	83.3	71.3	179.0	65.5	8.77	15.1	
6765	1:52:45	83.4	71.3	178.8	65.0	8.77	15.1	
6780	1:53:00	83.4	71.2	178.9	65.0	8.77	15.0	
6795	1:53:15	84.2	71.2	179.2	66.1	8.79	14.9	
6810	1:53:30	84.1	71.2	179.0	67.1	8.80	15.3	
6825	1:53:45	84.6	71.3	178.6	67.7	8.81	15.4	
6840	1:54:00	84.9	71.0	178.8	67.1	8.81	15.4	
6855	1:54:15	84.2	71.0	178.8	67.1	8.81	15.4	
6870	1:54:30	84.8	70.9	178.8	67.1	8.81	15.5	
6885	1:54:45	84.1	70.7	178.6	66.6	8.79	15.5	
6900	1:55:00	84.1	70.8	178.6	66.1	8.80	15.4	
6915	1:55:15	84.5	70.7	178.6	66.6	8.80	15.3	
6930	1:55:30	84.4	70.6	178.5	66.6	8.81	15.3	
6945	1:55:45	84.8	70.7	178.4	67.7	8.81	15.4	
6960	1:56:00	84.1	70.5	178.7	67.1	8.81	15.4	
6975	1:56:15	84.6	70.6	178.6	66.6	8.80	15.4	
6990	1:56:30	84.0	70.7	178.8	67.7	8.81	15.3	
7005	1:56:45	83.7	70.7	178.4	67.7	8.82	15.5	
7020	1:57:00	84.3	70.6	178.3	66.6	8.79	15.5	
7035	1:57:15	84.6	70.6	178.3	65.5	8.79	15.3	
7050	1:57:30	85.0	70.6	178.3	66.1	8.80	15.1	
7065	1:57:45	83.8	70.6	178.0	66.6	8.80	15.1	
7080	1:58:00	83.6	70.4	178.3	66.1	8.80	15.2	
7095	1:58:15	84.6	70.5	178.4	65.5	8.80	15.2	
7110	1:58:30	84.3	70.5	178.2	65.5	8.79	15.1	
7125	1:58:45	84.8	70.5	178.2	66.6	8.81	15.2	
7140	1:59:00	84.6	70.5	178.1	66.1	8.80	15.3	
7155	1:59:15	83.8	70.4	178.2	66.1	8.80	15.4	
7170	1:59:30	83.6	70.5	178.2	66.1	8.80	15.3	
7185	1:59:45	84.4	70.6	178.5	66.1	8.81	15.3	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
7200	2:00:00	84.2	70.4	178.7	66.6	8.80	15.2	
7215	2:00:15	84.1	70.5	178.8	66.6	8.80	15.2	
7230	2:00:30	84.0	70.6	178.5	66.1	8.81	15.2	
7245	2:00:45	84.0	70.5	178.4	66.1	8.81	15.2	
7260	2:01:00	83.9	70.6	178.7	66.1	8.81	15.2	
7275	2:01:15	83.8	70.6	178.4	66.1	8.82	15.3	
7290	2:01:30	84.2	70.4	178.5	65.5	8.80	15.2	
7305	2:01:45	84.0	70.6	178.7	66.1	8.81	15.2	
7320	2:02:00	83.7	70.7	178.1	65.5	8.81	15.1	
7335	2:02:15	83.8	70.6	178.5	65.5	8.80	15.1	
7350	2:02:30	83.4	70.6	178.5	65.5	8.80	15.0	
7365	2:02:45	83.4	70.5	179.5	65.5	8.79	15.0	
7380	2:03:00	83.7	70.6	178.7	65.5	8.80	14.9	
7395	2:03:15	83.3	70.6	178.7	65.5	8.81	14.9	
7410	2:03:30	83.0	70.6	178.8	65.0	8.80	15.0	
7425	2:03:45	83.5	70.6	178.9	64.5	8.78	14.9	
7440	2:04:00	84.2	70.6	178.4	65.0	8.78	14.8	
7455	2:04:15	83.9	70.6	178.6	65.0	8.77	14.8	
7470	2:04:30	84.1	70.6	178.7	65.5	8.80	14.8	
7485	2:04:45	84.3	70.5	178.9	66.1	8.80	15.0	
7500	2:05:00	84.7	70.6	178.5	66.1	8.81	15.1	
7515	2:05:15	84.2	70.3	179.2	66.1	8.81	15.0	
7530	2:05:30	84.0	70.3	179.1	66.6	8.82	15.0	
7545	2:05:45	83.9	70.3	179.2	66.1	8.82	15.0	
7560	2:06:00	84.8	70.4	179.1	66.6	8.83	15.1	
7575	2:06:15	84.3	70.3	178.9	67.1	8.84	15.1	
7590	2:06:30	84.8	70.1	179.3	67.1	8.83	15.3	
7605	2:06:45	84.1	70.2	179.8	66.6	8.83	15.2	
7620	2:07:00	83.8	70.4	179.3	66.1	8.82	15.1	
7635	2:07:15	83.6	70.4	178.7	66.3	8.82	15.1	
7650	2:07:30	83.3	70.4	178.8	66.1	8.81	15.1	
7665	2:07:45	83.4	70.4	179.1	66.1	8.81	15.1	
7680	2:08:00	83.5	70.3	179.0	66.6	8.81	15.1	
7695	2:08:15	83.5	70.3	179.1	66.6	8.81	15.2	
7710	2:08:30	83.7	70.5	179.1	67.1	8.82	15.2	
7725	2:08:45	84.1	70.4	179.1	67.7	8.83	15.3	
7740	2:09:00	84.5	70.4	179.4	67.7	8.82	15.3	
7755	2:09:15	84.7	70.4	179.0	67.7	8.82	15.3	
7770	2:09:30	84.5	70.4	179.4	67.7	8.82	15.4	
7785	2:09:45	84.5	70.3	178.8	67.1	8.81	15.4	
7800	2:10:00	84.2	70.4	178.9	66.6	8.81	15.3	
7815	2:10:15	84.3	70.3	178.6	67.1	8.81	15.3	
7830	2:10:30	84.2	70.3	178.5	67.1	8.82	15.4	
7845	2:10:45	84.6	70.3	178.5	67.1	8.81	15.4	
7860	2:11:00	83.9	70.2	178.1	66.7	8.81	15.4	
7875	2:11:15	83.4	70.2	178.3	66.6	8.81	15.4	
7890	2:11:30	82.8	70.2	178.6	66.6	8.81	15.3	
7905	2:11:45	82.9	70.2	178.4	67.1	8.82	15.3	

Manufacturer: RIELLO
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Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7920	2:12:00	84.0	70.1	178.7	66.1	8.80	15.2	
7935	2:12:15	83.8	70.2	179.0	66.6	8.81	15.1	
7950	2:12:30	83.9	70.2	178.4	66.6	8.81	15.2	
7965	2:12:45	83.9	70.3	178.5	66.6	8.81	15.2	
7980	2:13:00	84.3	70.2	178.4	66.6	8.81	15.3	
7995	2:13:15	84.3	70.2	178.5	66.6	8.81	15.3	
8010	2:13:30	84.0	70.1	178.7	66.6	8.81	15.3	
8025	2:13:45	84.1	70.1	178.2	66.1	8.80	15.3	
8040	2:14:00	84.0	70.1	178.6	65.5	8.79	15.2	
8055	2:14:15	84.4	70.2	178.8	65.5	8.79	15.1	
8070	2:14:30	84.3	70.1	178.6	66.1	8.79	15.2	
8085	2:14:45	84.0	70.3	178.3	66.6	8.81	15.3	
8100	2:15:00	83.9	70.2	178.5	66.6	8.80	15.4	
8115	2:15:15	83.9	70.3	178.1	66.6	8.80	15.4	
8130	2:15:30	84.0	70.1	178.4	66.1	8.79	15.3	
8145	2:15:45	84.3	70.1	178.5	65.0	8.78	15.2	
8160	2:16:00	84.3	70.2	179.0	65.5	8.79	15.1	
8175	2:16:15	84.2	70.2	178.5	66.1	8.79	15.0	
8190	2:16:30	83.7	70.2	178.4	66.1	8.80	15.2	
8205	2:16:45	82.9	70.1	178.5	65.5	8.79	15.2	
8220	2:17:00	82.7	70.2	179.1	65.0	8.79	15.1	
8235	2:17:15	82.7	70.1	178.7	65.0	8.79	15.0	
8250	2:17:30	82.9	70.2	178.8	64.5	8.78	15.0	
8265	2:17:45	83.1	70.2	178.8	64.5	8.78	15.1	
8280	2:18:00	83.0	70.1	178.7	63.9	8.78	15.0	
8295	2:18:15	83.4	70.3	178.3	63.4	8.77	14.9	
8310	2:18:30	83.5	70.2	178.3	63.4	8.78	14.8	
8325	2:18:45	83.0	70.0	178.3	63.4	8.77	14.8	
8340	2:19:00	83.0	70.2	178.3	63.4	8.77	14.8	
8355	2:19:15	83.1	70.1	178.6	63.4	8.78	14.7	
8370	2:19:30	83.7	70.2	178.5	63.9	8.79	14.7	
8385	2:19:45	83.9	70.2	178.8	64.5	8.80	14.8	
8400	2:20:00	83.8	70.1	179.3	64.5	8.80	15.0	Start High Fire Equilibrium - #1
8415	2:20:15	83.3	70.2	179.5	65.0	8.81	15.0	
8430	2:20:30	83.0	70.3	178.8	64.5	8.80	14.9	
8445	2:20:45	83.4	70.2	179.3	63.9	8.79	14.9	
8460	2:21:00	82.7	70.2	179.3	63.9	8.79	14.8	
8475	2:21:15	83.1	70.2	179.1	63.4	8.78	14.8	
8490	2:21:30	83.4	70.2	179.0	64.1	8.78	14.7	
8505	2:21:45	83.0	70.2	178.9	64.5	8.79	14.7	
8520	2:22:00	83.3	70.2	178.9	63.9	8.79	14.8	
8535	2:22:15	83.0	70.3	178.9	63.9	8.79	14.9	
8550	2:22:30	83.4	70.3	178.8	64.5	8.81	14.8	
8565	2:22:45	83.3	70.2	179.2	64.5	8.81	14.8	
8580	2:23:00	83.5	70.2	179.0	64.5	8.81	14.9	
8595	2:23:15	83.1	70.1	179.5	65.0	8.81	14.9	
8610	2:23:30	83.3	70.1	179.4	64.5	8.80	15.0	
8625	2:23:45	83.4	70.2	179.2	64.5	8.81	14.9	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
8640	2:24:00	83.4	70.3	179.1	64.5	8.81	14.8	End High Fire Equilibrium - #1
8655	2:24:15	83.1	70.2	179.3	65.0	8.81	14.8	
8670	2:24:30	83.6	70.2	179.1	64.5	8.80	15.0	
8685	2:24:45	84.1	70.1	179.3	65.0	8.80	14.9	
8700	2:25:00	83.8	70.3	179.2	65.0	8.81	15.0	
8715	2:25:15	83.7	70.1	179.5	65.0	8.81	15.1	
8730	2:25:30	84.2	70.2	179.2	65.0	8.82	14.9	
8745	2:25:45	83.3	70.3	179.3	65.0	8.81	15.0	Start Test - High Fire - #1
8760	2:26:00	82.6	70.3	179.5	64.5	8.81	15.0	
8775	2:26:15	82.5	70.2	179.7	64.5	8.81	14.9	
8790	2:26:30	82.5	70.1	179.6	64.5	8.81	14.9	
8805	2:26:45	82.9	70.3	179.2	63.9	8.80	14.9	
8820	2:27:00	83.1	70.3	178.9	63.9	8.79	14.8	
8835	2:27:15	83.0	70.3	179.1	63.4	8.80	14.7	
8850	2:27:30	83.1	70.2	179.4	63.4	8.79	14.6	
8865	2:27:45	83.5	70.3	179.1	63.4	8.79	14.6	
8880	2:28:00	84.1	70.3	179.2	64.5	8.79	14.8	
8895	2:28:15	83.9	70.2	179.2	64.5	8.79	14.9	
8910	2:28:30	84.1	70.4	178.5	64.5	8.79	14.9	
8925	2:28:45	83.9	70.3	179.4	63.9	8.78	14.8	
8940	2:29:00	84.0	70.3	179.1	65.0	8.80	14.9	
8955	2:29:15	84.2	70.3	179.1	65.0	8.80	15.0	
8970	2:29:30	84.1	70.2	179.3	65.5	8.80	15.0	
8985	2:29:45	83.2	70.2	179.4	65.5	8.81	15.0	
9000	2:30:00	83.5	70.2	178.8	66.1	8.81	15.1	
9015	2:30:15	83.9	70.3	179.1	65.0	8.80	15.1	
9030	2:30:30	84.1	70.2	178.8	65.5	8.80	14.8	
9045	2:30:45	84.3	70.2	178.9	65.5	8.80	15.0	
9060	2:31:00	84.0	69.9	179.3	65.0	8.79	15.2	
9075	2:31:15	84.6	70.0	179.7	64.5	8.79	15.1	
9090	2:31:30	84.0	70.1	178.9	65.0	8.80	14.9	
9105	2:31:45	83.5	70.1	178.9	65.0	8.79	15.0	
9120	2:32:00	83.4	70.1	178.7	65.0	8.80	15.1	
9135	2:32:15	84.3	70.1	178.5	64.5	8.79	15.1	
9150	2:32:30	84.3	70.2	179.0	65.0	8.80	14.9	
9165	2:32:45	84.9	70.2	179.4	63.9	8.80	14.9	
9180	2:33:00	84.4	70.1	178.8	64.5	8.81	14.9	
9195	2:33:15	84.6	70.1	178.8	64.5	8.81	14.8	
9210	2:33:30	84.7	70.1	179.0	64.5	8.81	15.0	
9225	2:33:45	84.5	70.1	179.1	65.0	8.82	15.0	
9240	2:34:00	84.2	70.1	179.0	65.0	8.82	15.0	
9255	2:34:15	84.9	70.0	178.4	64.5	8.81	15.1	
9270	2:34:30	84.1	70.0	178.4	64.5	8.81	15.1	
9285	2:34:45	83.7	69.9	179.3	64.5	8.81	15.0	
9300	2:35:00	83.8	70.1	179.7	65.5	8.82	15.0	
9315	2:35:15	83.9	70.1	179.1	65.5	8.82	15.0	
9330	2:35:30	84.9	70.2	179.0	65.0	8.82	15.0	
9345	2:35:45	84.9	70.2	179.3	65.0	8.82	14.9	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
9360	2:36:00	83.9	70.1	179.3	66.1	8.83	15.0	
9375	2:36:15	83.3	70.3	179.3	66.1	8.83	15.2	
9390	2:36:30	82.7	70.2	179.4	66.6	8.83	15.2	
9405	2:36:45	82.8	70.3	179.1	66.1	8.83	15.2	
9420	2:37:00	82.8	70.4	179.0	65.2	8.81	15.1	
9435	2:37:15	83.3	70.3	179.3	64.5	8.80	14.9	
9450	2:37:30	83.2	70.2	179.5	65.0	8.81	14.9	
9465	2:37:45	83.2	70.3	178.8	64.5	8.80	14.9	
9480	2:38:00	83.1	70.3	178.5	64.5	8.80	15.0	
9495	2:38:15	83.2	70.2	178.7	64.5	8.80	15.0	
9510	2:38:30	84.0	70.2	179.0	65.0	8.80	14.9	
9525	2:38:45	84.0	70.1	178.6	64.5	8.80	15.0	
9540	2:39:00	83.5	70.2	178.5	63.9	8.80	15.0	
9555	2:39:15	83.5	70.1	178.8	63.9	8.79	14.9	
9570	2:39:30	83.1	70.1	179.2	63.9	8.80	14.9	
9585	2:39:45	83.2	70.1	179.2	63.9	8.80	14.9	
9600	2:40:00	83.8	70.1	179.1	63.9	8.80	14.8	
9615	2:40:15	83.2	70.1	178.7	63.9	8.80	14.8	
9630	2:40:30	83.0	70.2	178.7	63.9	8.80	14.8	
9645	2:40:45	83.1	70.3	178.8	63.9	8.80	14.8	
9660	2:41:00	83.6	70.1	179.1	63.9	8.80	14.7	
9675	2:41:15	83.4	70.1	179.3	63.9	8.80	14.7	
9690	2:41:30	83.8	70.3	179.1	63.9	8.81	14.8	
9705	2:41:45	83.6	70.2	179.0	63.9	8.80	14.8	
9720	2:42:00	83.7	70.1	179.2	63.9	8.80	14.7	
9735	2:42:15	83.7	70.1	179.1	63.4	8.79	14.7	
9750	2:42:30	83.5	70.2	178.8	63.4	8.80	14.6	
9765	2:42:45	83.8	70.2	179.0	63.4	8.80	14.6	
9780	2:43:00	84.0	70.2	178.9	63.9	8.79	14.7	
9795	2:43:15	84.5	70.1	179.5	64.3	8.79	14.7	
9810	2:43:30	84.8	70.2	179.3	63.9	8.80	14.8	
9825	2:43:45	84.7	70.2	179.0	63.4	8.80	14.7	
9840	2:44:00	83.8	70.1	178.7	63.4	8.80	14.7	
9855	2:44:15	83.4	70.1	179.2	62.9	8.79	14.7	
9870	2:44:30	83.7	70.1	178.9	63.4	8.80	14.5	
9885	2:44:45	83.5	70.2	179.1	63.4	8.80	14.7	
9900	2:45:00	83.8	70.2	178.9	62.9	8.79	14.7	
9915	2:45:15	83.5	70.1	179.0	63.4	8.79	14.7	
9930	2:45:30	83.2	70.2	179.3	63.4	8.80	14.7	
9945	2:45:45	83.1	70.2	178.7	63.4	8.79	14.7	
9960	2:46:00	83.1	70.2	179.1	62.3	8.78	14.6	
9975	2:46:15	83.1	70.3	179.6	62.3	8.77	14.5	
9990	2:46:30	83.4	70.2	179.1	62.3	8.77	14.5	
10005	2:46:45	83.8	70.2	179.0	62.3	8.77	14.5	
10020	2:47:00	84.4	70.2	178.9	62.3	8.78	14.5	
10035	2:47:15	84.0	70.3	179.7	63.4	8.78	14.6	
10050	2:47:30	83.8	70.1	179.7	63.9	8.80	14.7	
10065	2:47:45	83.9	70.1	179.1	64.5	8.81	14.7	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10080	2:48:00	84.3	70.2	179.1	65.5	8.81	14.9	
10095	2:48:15	84.4	70.2	178.9	65.0	8.80	14.9	
10110	2:48:30	84.2	70.0	178.8	64.5	8.79	14.9	
10125	2:48:45	84.1	70.0	179.2	64.5	8.80	14.9	
10140	2:49:00	83.8	70.1	179.2	65.0	8.81	15.0	
10155	2:49:15	83.5	70.2	179.0	65.0	8.81	15.1	
10170	2:49:30	83.8	70.1	178.6	64.5	8.80	15.0	
10185	2:49:45	84.3	70.2	179.1	64.5	8.80	14.9	
10200	2:50:00	84.8	70.0	179.2	65.0	8.80	14.9	
10215	2:50:15	84.6	70.0	179.7	65.5	8.81	14.9	
10230	2:50:30	84.6	70.1	179.1	65.0	8.80	15.1	
10245	2:50:45	84.7	70.1	179.3	64.5	8.80	15.0	
10260	2:51:00	84.9	70.1	178.7	64.5	8.81	14.9	
10275	2:51:15	84.7	70.0	178.6	64.5	8.81	14.9	
10290	2:51:30	84.4	70.2	178.8	65.0	8.80	14.9	
10305	2:51:45	84.5	70.0	179.0	65.0	8.81	15.0	
10320	2:52:00	85.3	70.1	179.7	65.0	8.81	15.0	
10335	2:52:15	84.3	70.0	179.8	65.0	8.81	15.0	
10350	2:52:30	84.0	70.0	179.5	65.5	8.82	15.0	
10365	2:52:45	84.3	70.1	178.7	64.5	8.81	15.1	
10380	2:53:00	84.2	70.2	178.5	64.5	8.80	15.2	Start Emissions
10395	2:53:15	84.1	70.2	179.5	64.5	8.81	15.0	
10410	2:53:30	84.1	70.2	179.6	65.0	8.81	15.1	
10425	2:53:45	83.8	70.1	178.9	63.9	8.80	15.0	
10440	2:54:00	84.6	70.2	178.7	63.9	8.80	15.0	1st Minute
10455	2:54:15	84.7	70.3	178.6	63.9	8.80	14.9	
10470	2:54:30	84.4	70.2	179.0	63.9	8.79	15.0	
10485	2:54:45	84.5	70.0	179.2	64.5	8.80	14.9	
10500	2:55:00	84.3	70.0	178.8	65.0	8.81	15.0	2nd Minute
10515	2:55:15	84.7	70.2	179.1	65.0	8.81	15.1	
10530	2:55:30	84.7	70.1	179.0	65.0	8.82	15.1	
10545	2:55:45	84.8	70.1	178.8	65.0	8.81	15.1	
10560	2:56:00	84.4	70.0	178.8	64.5	8.80	15.0	3rd Minute / EOT - High Fire - #1
10575	2:56:15	84.6	70.1	178.5	64.5	8.80	15.0	
10590	2:56:30	84.1	70.1	178.6	63.9	8.80	15.1	CO2 (Avg) % =
10605	2:56:45	84.0	69.9	179.6	65.5	8.82	15.1	8.80
10620	2:57:00	83.9	70.1	179.0	64.5	8.81	15.2	NOx (Avg) ppm =
10635	2:57:15	83.7	70.3	179.1	63.9	8.79	15.3	15.0
10650	2:57:30	84.2	70.0	179.4	63.9	8.79	15.0	CO (Max) ppm =
10665	2:57:45	83.9	70.1	178.7	63.4	8.80	14.9	66.6
10680	2:58:00	83.9	70.2	178.6	63.4	8.79	14.8	Ambient (Avg) F =
10695	2:58:15	84.1	70.2	178.2	63.4	8.79	14.8	83.9
10710	2:58:30	83.9	69.9	178.4	62.9	8.78	14.8	T_In (Avg) F =
10725	2:58:45	83.6	70.1	179.0	62.9	8.80	14.6	70.2
10740	2:59:00	83.3	70.2	178.9	61.8	8.77	14.4	T_Del (Avg) F =
10755	2:59:15	83.2	70.2	178.7	61.3	8.75	14.4	179.1

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Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10770	2:59:30	83.2	70.2	178.6	60.7	8.75	14.3	
10785	2:59:45	83.2	70.3	178.7	60.7	8.75	14.3	
10800	3:00:00	83.8	70.1	178.5	60.7	8.75	14.3	
10815	3:00:15	84.0	70.1	178.4	61.3	8.77	14.3	
10830	3:00:30	83.9	70.1	178.4	61.8	8.78	14.5	
10845	3:00:45	84.0	70.2	178.9	61.8	8.78	14.6	
10860	3:01:00	84.9	70.2	178.6	61.8	8.78	14.6	
10875	3:01:15	84.4	70.1	178.6	62.3	8.79	14.6	
10890	3:01:30	84.9	70.0	178.9	62.3	8.78	14.5	
10905	3:01:45	84.4	70.1	179.2	61.8	8.78	14.6	
10920	3:02:00	83.9	70.0	178.8	61.8	8.77	14.6	
10935	3:02:15	83.1	70.1	178.7	61.3	8.76	14.5	
10950	3:02:30	83.7	70.1	178.7	61.3	8.76	14.4	
10965	3:02:45	83.5	70.0	179.4	62.0	8.80	14.4	
10980	3:03:00	83.3	70.0	179.5	62.3	8.79	14.4	
10995	3:03:15	83.6	70.1	179.4	61.8	8.77	14.5	
11010	3:03:30	83.6	70.2	179.0	61.8	8.76	14.5	
11025	3:03:45	83.8	70.1	178.7	61.8	8.76	14.4	
11040	3:04:00	83.7	70.1	179.0	61.8	8.77	14.4	
11055	3:04:15	83.8	70.2	179.1	61.8	8.77	14.4	
11070	3:04:30	83.8	70.0	178.9	61.8	8.76	14.4	
11085	3:04:45	83.9	70.0	179.1	61.8	8.75	14.4	
11100	3:05:00	84.1	70.1	178.9	61.3	8.75	14.4	
11115	3:05:15	84.0	70.1	179.0	61.8	8.75	14.4	
11130	3:05:30	84.0	70.0	179.0	62.3	8.76	14.4	
11145	3:05:45	84.4	70.2	178.6	61.8	8.77	14.5	
11160	3:06:00	84.7	70.0	161.8	61.8	8.78	14.5	
11175	3:06:15	84.7	69.9	144.5	37.3	8.87	14.5	
11190	3:06:30	84.4	67.3	138.4	32.5	8.89	16.1	
11205	3:06:45	84.1	66.6	137.0	30.9	8.89	16.6	
11220	3:07:00	84.4	66.1	138.8	29.3	8.88	17.0	
11235	3:07:15	83.9	66.0	142.8	28.8	8.88	16.8	
11250	3:07:30	84.1	65.9	145.5	28.8	8.90	17.0	
11265	3:07:45	84.5	65.9	147.3	28.8	8.88	17.0	
11280	3:08:00	84.2	65.9	150.0	28.8	8.88	17.1	
11295	3:08:15	84.7	66.0	156.3	27.7	8.87	17.2	
11310	3:08:30	84.1	66.6	163.6	27.7	8.88	17.2	
11325	3:08:45	84.4	66.9	168.6	27.2	8.86	17.2	
11340	3:09:00	84.7	66.9	170.8	25.6	8.82	17.0	
11355	3:09:15	84.4	66.9	171.7	24.5	8.79	16.7	
11370	3:09:30	84.6	66.8	172.2	24.5	8.82	15.7	
11385	3:09:45	84.4	66.9	173.1	24.6	8.80	15.8	
11400	3:10:00	84.4	66.8	172.3	24.6	8.81	16.0	
11415	3:10:15	84.3	66.9	172.8	24.5	8.80	16.0	
11430	3:10:30	84.7	66.9	173.2	24.5	8.80	15.9	
11445	3:10:45	84.2	67.0	173.2	24.5	8.82	15.9	
11460	3:11:00	84.2	67.2	172.8	24.5	8.83	16.1	
11475	3:11:15	83.7	68.0	173.0	24.0	8.81	16.2	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
11490	3:11:30	83.6	68.4	172.5	23.5	8.79	15.8	
11505	3:11:45	83.4	68.5	173.0	24.0	8.78	15.8	
11520	3:12:00	83.5	68.7	172.6	24.0	8.79	16.0	
11535	3:12:15	84.4	68.7	172.8	24.0	8.78	16.2	
11550	3:12:30	83.8	68.8	172.7	23.5	8.77	16.0	
11565	3:12:45	83.9	69.0	174.0	23.5	8.77	15.9	
11580	3:13:00	84.2	69.1	174.5	22.9	8.76	15.9	
11595	3:13:15	84.9	69.3	175.4	23.5	8.76	16.1	
11610	3:13:30	85.2	69.1	176.6	24.0	8.79	16.0	
11625	3:13:45	84.8	69.2	178.1	24.5	8.79	16.1	
11640	3:14:00	84.6	69.2	177.7	24.0	8.78	16.1	
11655	3:14:15	84.5	69.2	177.8	24.0	8.78	16.0	
11670	3:14:30	83.7	69.3	177.9	24.0	8.80	16.0	
11685	3:14:45	84.3	69.3	178.1	24.0	8.78	16.0	
11700	3:15:00	84.2	69.4	178.3	24.5	8.80	15.9	
11715	3:15:15	84.1	69.4	178.5	25.1	8.83	15.9	
11730	3:15:30	83.6	69.5	179.5	25.6	8.84	16.4	
11745	3:15:45	83.9	69.5	179.3	25.1	8.83	16.4	
11760	3:16:00	84.6	69.5	179.1	23.5	8.77	16.0	
11775	3:16:15	84.4	69.5	179.0	22.9	8.73	15.7	
11790	3:16:30	84.3	69.5	179.1	23.5	8.76	15.1	
11805	3:16:45	84.2	69.6	179.4	23.5	8.78	15.5	
11820	3:17:00	83.3	69.6	179.4	23.5	8.78	15.8	
11835	3:17:15	83.7	69.7	179.5	23.5	8.76	15.9	
11850	3:17:30	83.7	69.8	179.4	22.9	8.75	15.8	
11865	3:17:45	83.8	69.8	180.1	23.5	8.77	15.5	
11880	3:18:00	84.4	69.8	179.7	24.0	8.79	15.6	
11895	3:18:15	83.3	69.5	179.6	24.0	8.78	15.9	
11910	3:18:30	83.9	69.7	179.4	23.5	8.77	15.9	
11925	3:18:45	84.3	69.8	180.2	23.5	8.76	15.8	
11940	3:19:00	83.8	69.8	179.8	24.0	8.78	15.8	
11955	3:19:15	84.7	69.9	179.8	24.0	8.79	16.0	
11970	3:19:30	84.7	69.9	180.7	24.0	8.76	16.1	
11985	3:19:45	84.6	69.9	179.6	24.0	8.78	16.0	
12000	3:20:00	84.3	70.0	180.2	23.5	8.76	15.8	
12015	3:20:15	84.3	69.9	179.8	24.5	8.81	15.7	
12030	3:20:30	83.8	70.1	179.4	23.5	8.79	16.3	
12045	3:20:45	84.4	70.0	179.0	22.4	8.76	16.1	
12060	3:21:00	84.1	70.0	177.9	23.0	8.81	16.1	
12075	3:21:15	84.0	70.0	178.1	23.5	8.83	16.2	
12090	3:21:30	83.7	69.9	177.8	23.5	8.84	16.5	
12105	3:21:45	84.0	70.0	178.1	23.5	8.81	16.4	
12120	3:22:00	84.1	70.0	177.7	23.5	8.81	16.3	
12135	3:22:15	84.2	70.0	177.6	22.9	8.78	16.4	
12150	3:22:30	84.2	70.0	178.2	23.5	8.79	15.8	
12165	3:22:45	84.4	70.0	177.7	23.5	8.80	16.0	
12180	3:23:00	84.0	69.9	177.8	24.0	8.81	16.3	
12195	3:23:15	84.0	69.8	177.7	23.5	8.81	16.4	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12210	3:23:30	84.4	69.9	177.5	23.5	8.81	16.4	
12225	3:23:45	83.9	69.9	177.5	21.9	8.75	16.4	
12240	3:24:00	84.4	69.9	177.9	22.4	8.76	15.9	
12255	3:24:15	84.4	69.7	178.1	22.9	8.79	15.4	
12270	3:24:30	84.7	69.8	178.7	22.9	8.79	16.2	
12285	3:24:45	84.2	69.8	178.4	22.9	8.79	16.1	
12300	3:25:00	84.0	69.8	178.5	23.5	8.81	16.1	Start Mid Fire Equilibrium - #1
12315	3:25:15	84.0	69.9	178.4	22.9	8.78	16.2	
12330	3:25:30	84.1	69.9	178.7	22.4	8.76	15.7	
12345	3:25:45	83.9	69.8	178.5	22.4	8.77	15.8	
12360	3:26:00	83.8	69.9	178.2	22.4	8.77	15.8	
12375	3:26:15	83.7	69.9	178.7	22.4	8.78	15.7	
12390	3:26:30	84.3	69.9	178.8	22.4	8.76	15.9	
12405	3:26:45	83.9	69.7	179.1	22.4	8.78	15.8	
12420	3:27:00	83.7	69.7	178.9	23.5	8.79	15.8	
12435	3:27:15	84.2	69.8	179.3	22.9	8.78	15.9	
12450	3:27:30	83.6	69.8	179.1	22.9	8.79	15.7	
12465	3:27:45	84.2	69.8	179.2	23.5	8.80	15.8	
12480	3:28:00	83.9	69.8	179.2	23.5	8.81	16.1	
12495	3:28:15	84.2	69.7	179.8	23.5	8.81	16.2	
12510	3:28:30	84.2	69.8	179.2	24.0	8.83	16.1	
12525	3:28:45	84.7	69.7	179.3	24.0	8.84	16.2	
12540	3:29:00	85.2	69.7	179.4	23.5	8.83	16.4	
12555	3:29:15	84.2	69.7	179.2	23.6	8.82	16.5	
12570	3:29:30	84.5	69.7	178.7	22.4	8.76	16.4	
12585	3:29:45	84.9	69.8	179.1	22.4	8.77	15.9	
12600	3:30:00	84.3	69.7	179.0	23.5	8.80	15.8	End Mid Fire Equilibrium - #1
12615	3:30:15	83.5	69.8	179.1	23.5	8.80	16.2	
12630	3:30:30	83.7	69.8	178.7	24.0	8.82	16.1	
12645	3:30:45	83.6	69.8	178.9	23.5	8.81	16.4	
12660	3:31:00	83.6	69.7	179.0	22.9	8.79	16.4	Start Test - Mid Fire - #1
12675	3:31:15	84.0	69.8	178.7	22.9	8.79	16.2	
12690	3:31:30	84.0	69.8	179.2	22.9	8.80	16.0	
12705	3:31:45	84.0	69.7	179.4	22.9	8.79	16.0	
12720	3:32:00	84.0	69.7	179.5	23.5	8.83	16.1	
12735	3:32:15	84.2	69.9	179.1	22.4	8.78	16.3	
12750	3:32:30	84.0	69.9	179.0	22.9	8.81	15.9	
12765	3:32:45	83.5	70.0	179.0	22.4	8.79	16.1	
12780	3:33:00	83.3	69.9	179.0	22.4	8.79	16.1	
12795	3:33:15	83.9	69.9	179.3	22.9	8.78	15.9	
12810	3:33:30	83.6	69.9	179.5	22.9	8.79	15.8	
12825	3:33:45	84.0	69.9	179.0	22.9	8.79	15.8	
12840	3:34:00	84.8	70.0	179.2	23.5	8.79	16.0	
12855	3:34:15	85.1	69.9	179.5	23.5	8.79	16.1	
12870	3:34:30	84.6	69.9	179.2	22.9	8.80	15.9	
12885	3:34:45	84.4	69.9	178.9	21.9	8.77	16.0	
12900	3:35:00	84.5	69.9	178.8	21.9	8.75	15.7	
12915	3:35:15	84.0	69.8	179.1	22.4	8.78	15.3	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12930	3:35:30	84.8	69.8	179.2	22.4	8.79	15.9	
12945	3:35:45	84.3	69.9	178.8	22.9	8.79	15.9	
12960	3:36:00	84.4	69.8	179.4	22.9	8.79	16.0	
12975	3:36:15	84.2	69.8	178.9	22.4	8.79	16.0	
12990	3:36:30	84.3	69.8	179.4	22.4	8.79	16.0	
13005	3:36:45	84.3	69.8	179.2	22.4	8.79	16.0	
13020	3:37:00	84.8	69.7	179.0	22.9	8.80	16.1	
13035	3:37:15	85.0	69.8	179.2	22.4	8.80	16.1	
13050	3:37:30	84.3	69.8	178.7	22.4	8.80	16.0	
13065	3:37:45	83.6	69.9	179.1	22.4	8.79	16.1	
13080	3:38:00	83.9	69.9	179.0	21.9	8.77	16.0	
13095	3:38:15	84.0	69.9	179.2	22.4	8.78	15.8	
13110	3:38:30	84.1	69.8	179.0	21.9	8.78	15.9	
13125	3:38:45	84.6	69.8	178.7	22.4	8.79	15.8	
13140	3:39:00	84.3	69.8	178.9	22.4	8.81	16.0	
13155	3:39:15	84.4	69.8	179.2	22.9	8.80	16.4	
13170	3:39:30	84.4	69.9	179.5	22.9	8.81	16.1	
13185	3:39:45	84.4	69.8	179.2	23.5	8.82	16.2	
13200	3:40:00	84.5	69.7	179.2	23.5	8.82	16.4	
13215	3:40:15	84.3	69.7	179.0	22.9	8.81	16.4	
13230	3:40:30	84.0	69.6	178.9	22.9	8.81	16.1	
13245	3:40:45	84.2	69.6	179.0	22.9	8.80	16.3	
13260	3:41:00	84.8	69.7	178.8	22.9	8.80	16.3	
13275	3:41:15	84.6	69.6	178.6	22.4	8.79	16.2	
13290	3:41:30	84.0	69.7	179.0	22.4	8.79	16.0	
13305	3:41:45	83.2	69.7	178.9	22.9	8.81	16.1	
13320	3:42:00	83.9	69.7	179.4	23.5	8.81	16.4	
13335	3:42:15	83.8	69.6	179.3	24.0	8.83	16.5	
13350	3:42:30	83.4	69.6	178.9	23.5	8.82	16.7	
13365	3:42:45	83.8	69.6	179.2	22.9	8.80	16.5	
13380	3:43:00	84.0	69.6	179.1	22.4	8.79	16.2	
13395	3:43:15	83.6	69.6	178.7	22.4	8.80	16.0	
13410	3:43:30	83.6	69.5	178.8	22.4	8.77	16.1	
13425	3:43:45	83.8	69.6	179.1	22.9	8.80	16.0	
13440	3:44:00	83.3	69.7	178.8	23.5	8.81	16.1	
13455	3:44:15	83.9	69.6	178.5	22.9	8.81	16.2	
13470	3:44:30	84.5	69.5	178.9	22.4	8.77	16.1	
13485	3:44:45	84.5	69.6	179.1	22.4	8.79	16.1	
13500	3:45:00	83.9	69.5	178.9	22.9	8.79	16.0	
13515	3:45:15	84.4	69.4	178.6	22.9	8.80	15.9	
13530	3:45:30	84.3	69.5	178.9	23.5	8.85	16.1	
13545	3:45:45	83.9	69.5	178.8	22.4	8.79	16.2	
13560	3:46:00	84.2	69.4	178.4	22.9	8.80	16.1	
13575	3:46:15	84.4	69.5	178.5	22.9	8.80	15.8	
13590	3:46:30	83.9	69.4	178.8	22.9	8.80	15.8	
13605	3:46:45	84.5	69.5	178.7	22.9	8.81	15.8	
13620	3:47:00	84.3	69.5	178.8	23.5	8.82	15.9	
13635	3:47:15	84.5	69.5	178.8	23.5	8.83	16.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13650	3:47:30	84.1	69.5	178.7	22.9	8.82	16.6	
13665	3:47:45	83.9	69.5	179.2	22.4	8.80	16.3	
13680	3:48:00	83.7	69.5	178.9	22.4	8.79	16.0	
13695	3:48:15	84.0	69.6	179.3	22.4	8.80	16.0	
13710	3:48:30	84.1	69.5	178.4	22.4	8.79	16.1	
13725	3:48:45	83.9	69.6	179.0	22.4	8.79	16.1	
13740	3:49:00	84.2	69.6	178.6	21.9	8.79	16.1	
13755	3:49:15	84.2	69.5	178.7	21.3	8.75	16.1	
13770	3:49:30	84.4	69.5	178.6	21.9	8.79	15.1	
13785	3:49:45	84.4	69.5	178.7	22.9	8.82	15.6	
13800	3:50:00	84.2	69.5	178.8	23.5	8.82	16.3	
13815	3:50:15	84.8	69.5	179.1	22.4	8.78	16.5	
13830	3:50:30	84.9	69.6	179.3	21.9	8.79	15.6	
13845	3:50:45	84.7	69.6	178.9	22.4	8.82	15.8	
13860	3:51:00	84.2	69.5	178.6	22.4	8.81	16.1	
13875	3:51:15	84.4	69.6	178.8	22.9	8.81	16.2	
13890	3:51:30	84.1	69.6	178.5	22.9	8.82	16.1	
13905	3:51:45	84.2	69.6	178.5	22.9	8.83	16.2	
13920	3:52:00	84.2	69.5	179.1	23.5	8.84	16.3	
13935	3:52:15	84.4	69.5	178.8	22.9	8.81	16.3	
13950	3:52:30	84.7	69.5	178.3	22.9	8.81	16.2	
13965	3:52:45	84.3	69.6	178.3	22.4	8.81	16.2	
13980	3:53:00	84.3	69.5	178.5	22.4	8.80	16.1	
13995	3:53:15	84.2	69.6	178.2	22.4	8.80	15.9	
14010	3:53:30	84.5	69.6	178.9	21.9	8.79	15.9	
14025	3:53:45	84.8	69.6	178.5	21.9	8.78	15.8	
14040	3:54:00	84.8	69.6	178.8	21.9	8.79	15.7	
14055	3:54:15	84.9	69.5	178.4	22.4	8.80	15.7	
14070	3:54:30	85.1	69.6	178.5	22.9	8.82	15.9	
14085	3:54:45	84.9	69.6	178.9	22.9	8.81	16.2	
14100	3:55:00	84.2	69.6	179.1	22.4	8.81	16.3	
14115	3:55:15	84.3	69.6	178.8	22.9	8.82	16.1	
14130	3:55:30	83.8	69.7	178.0	22.4	8.81	16.3	
14145	3:55:45	83.7	69.7	178.4	21.3	8.77	16.1	
14160	3:56:00	83.8	69.7	178.3	21.9	8.79	15.9	
14175	3:56:15	83.7	69.7	178.8	21.9	8.78	15.9	
14190	3:56:30	84.1	69.7	178.6	21.9	8.78	15.8	
14205	3:56:45	84.1	69.7	178.8	21.9	8.78	15.8	
14220	3:57:00	84.1	69.7	178.6	21.9	8.79	15.7	
14235	3:57:15	84.3	69.6	179.3	21.9	8.79	15.6	
14250	3:57:30	84.1	69.7	179.4	21.9	8.81	15.8	
14265	3:57:45	83.9	69.7	178.5	20.8	8.77	15.8	
14280	3:58:00	84.0	69.6	179.3	21.3	8.78	15.5	Start Emissions
14295	3:58:15	84.3	69.5	179.3	21.9	8.79	15.2	
14310	3:58:30	84.3	69.7	179.1	21.7	8.79	15.7	
14325	3:58:45	84.3	69.7	179.3	21.9	8.79	15.7	
14340	3:59:00	84.5	69.6	178.6	21.9	8.81	15.7	1st Minute
14355	3:59:15	84.6	69.8	179.0	21.9	8.81	15.8	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14370	3:59:30	84.6	69.7	178.7	21.9	8.80	15.8	
14385	3:59:45	84.6	69.7	178.8	21.3	8.77	15.9	
14400	4:00:00	84.2	69.7	178.6	22.4	8.85	16.0	2nd Minute
14415	4:00:15	84.5	69.7	178.7	22.4	8.81	16.2	
14430	4:00:30	84.3	69.7	179.0	21.9	8.80	15.8	
14445	4:00:45	84.2	69.6	179.2	21.9	8.80	15.8	
14460	4:01:00	84.2	69.7	178.9	22.4	8.81	15.9	3rd Minute / EOT - Mid Fire - #1
14475	4:01:15	84.3	69.7	179.4	21.9	8.81	16.1	
14490	4:01:30	84.5	69.6	179.2	22.4	8.82	16.0	CO2 (Avg) % = 8.80
14505	4:01:45	84.3	69.4	179.9	22.4	8.81	16.1	NOx (Avg) ppm = 15.8
14520	4:02:00	84.3	69.6	179.4	22.4	8.80	16.1	CO (Max) ppm = 24.0
14535	4:02:15	84.4	69.6	179.2	22.4	8.81	16.0	Ambient (Avg) F = 84.2
14550	4:02:30	84.0	69.7	178.6	22.4	8.81	16.1	T_In (Avg) F = 69.7
14565	4:02:45	84.2	69.8	178.7	21.9	8.80	16.1	T_Del (Avg) F = 178.9
14580	4:03:00	84.2	69.7	179.0	21.9	8.80	16.0	
14595	4:03:15	84.3	69.6	179.1	21.9	8.81	16.0	
14610	4:03:30	84.1	69.5	179.2	21.9	8.80	16.0	
14625	4:03:45	84.2	69.7	179.2	22.4	8.83	15.9	
14640	4:04:00	84.4	69.7	178.9	21.9	8.81	15.9	
14655	4:04:15	84.5	69.7	179.4	22.4	8.81	15.9	
14670	4:04:30	84.7	69.7	178.8	21.9	8.81	16.0	
14685	4:04:45	84.7	69.7	179.1	22.4	8.82	15.9	
14700	4:05:00	84.6	69.6	178.9	22.4	8.82	15.9	
14715	4:05:15	84.4	69.7	178.9	22.4	8.81	16.0	
14730	4:05:30	84.3	69.6	179.2	21.9	8.81	15.9	
14745	4:05:45	84.3	69.6	179.5	21.9	8.80	15.9	
14760	4:06:00	84.4	69.7	179.7	21.9	8.80	16.1	
14775	4:06:15	84.8	69.6	179.1	21.9	8.80	16.2	
14790	4:06:30	84.9	69.7	178.8	21.9	8.79	16.0	
14805	4:06:45	84.6	69.6	179.0	21.9	8.79	15.9	
14820	4:07:00	84.7	69.6	178.9	21.9	8.82	15.8	
14835	4:07:15	84.5	69.7	179.1	21.9	8.82	15.8	
14850	4:07:30	84.9	69.6	178.8	22.4	8.82	15.9	
14865	4:07:45	84.9	69.6	178.6	22.4	8.83	16.0	
14880	4:08:00	84.9	69.6	179.0	22.4	8.82	16.0	
14895	4:08:15	84.2	69.6	178.8	22.4	8.83	15.9	
14910	4:08:30	84.7	69.6	178.2	22.4	8.81	16.1	
14925	4:08:45	84.4	69.6	178.5	21.3	8.79	16.1	
14940	4:09:00	84.9	69.6	178.5	21.3	8.80	15.8	
14955	4:09:15	84.5	69.6	179.2	21.9	8.81	15.6	
14970	4:09:30	84.6	69.4	179.5	21.9	8.81	15.9	
14985	4:09:45	84.7	69.4	180.1	21.9	8.82	15.9	
15000	4:10:00	84.7	69.5	178.9	21.9	8.81	16.0	
15015	4:10:15	84.8	69.6	179.2	21.3	8.79	16.1	
15030	4:10:30	84.7	69.6	179.5	21.4	8.79	15.7	
15045	4:10:45	84.7	69.5	179.2	21.3	8.79	15.7	
15060	4:11:00	84.5	69.5	178.6	21.9	8.80	15.7	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15075	4:11:15	84.5	69.5	178.6	21.9	8.81	15.6	
15090	4:11:30	84.2	69.5	178.7	21.9	8.81	16.0	
15105	4:11:45	84.1	69.6	179.0	21.9	8.80	15.9	
15120	4:12:00	84.2	69.5	178.8	21.9	8.79	15.8	
15135	4:12:15	84.4	69.6	178.7	21.9	8.80	15.9	
15150	4:12:30	84.3	69.7	168.0	23.5	8.78	15.9	
15165	4:12:45	84.4	69.7	138.2	1.1	0.98	15.7	
15180	4:13:00	84.7	69.6	109.4	0.0	0.19	9.3	
15195	4:13:15	84.8	69.6	91.7	0.0	0.35	3.0	
15210	4:13:30	84.5	69.3	83.2	0.0	0.01	4.4	
15225	4:13:45	84.4	69.3	78.8	0.0	0.00	2.3	
15240	4:14:00	84.9	69.0	76.0	0.0	0.00	0.2	
15255	4:14:15	84.8	68.8	74.1	0.0	0.00	0.1	
15270	4:14:30	84.9	68.7	73.0	0.0	0.00	0.1	
15285	4:14:45	84.9	68.5	72.2	0.0	0.00	0.1	
15300	4:15:00	84.8	68.3	71.8	0.0	0.00	0.1	Start Zero OUT
15315	4:15:15	84.9	68.1	71.5	0.0	0.00	0.1	
15330	4:15:30	85.2	67.7	71.2	0.0	0.00	0.1	
15345	4:15:45	85.2	67.6	71.1	0.0	0.00	0.1	
15360	4:16:00	85.3	67.6	71.5	0.0	0.00	0.1	
15375	4:16:15	85.4	67.6	71.8	0.0	0.00	0.1	
15390	4:16:30	85.5	67.7	72.2	0.0	0.00	0.1	
15405	4:16:45	85.3	67.8	72.5	0.0	0.00	0.1	
15420	4:17:00	85.1	68.0	72.9	0.0	0.00	0.1	
15435	4:17:15	85.3	68.1	73.2	0.0	0.00	0.1	
15450	4:17:30	85.3	68.3	73.5	0.0	0.00	0.1	
15465	4:17:45	85.2	68.5	73.6	0.0	0.00	0.1	
15480	4:18:00	85.1	68.5	73.9	0.0	0.00	0.1	
15495	4:18:15	85.4	68.7	74.2	0.0	0.00	0.0	
15510	4:18:30	85.5	68.9	74.4	0.0	0.00	0.0	
15525	4:18:45	85.3	69.1	74.7	0.0	0.00	0.0	
15540	4:19:00	85.2	69.2	75.0	0.0	0.00	0.0	
15555	4:19:15	84.9	69.3	75.2	0.0	0.00	0.0	
15570	4:19:30	84.8	69.4	75.5	0.0	0.00	0.0	
15585	4:19:45	85.0	69.6	75.8	0.0	0.00	0.0	
15600	4:20:00	85.2	69.7	76.0	0.0	0.00	0.0	Analyzer Zero OUT
15615	4:20:15	85.3	69.8	76.2	0.0	0.00	0.0	
15630	4:20:30	85.4	69.9	76.5	0.0	0.00	0.0	
15645	4:20:45	85.6	70.1	76.7	0.0	0.00	0.0	
15660	4:21:00	85.5	70.2	76.9	0.0	0.00	0.0	
15675	4:21:15	85.6	70.3	77.2	522.2	4.42	0.0	
15690	4:21:30	85.6	70.5	77.4	917.1	9.28	2.0	
15705	4:21:45	85.5	70.5	77.6	953.0	9.44	14.1	
15720	4:22:00	85.5	70.6	77.8	959.7	9.47	26.2	
15735	4:22:15	85.6	70.8	78.0	961.8	9.47	26.3	
15750	4:22:30	85.2	70.8	78.2	962.4	9.48	26.2	
15765	4:22:45	85.3	71.0	78.4	962.9	9.48	26.2	
15780	4:23:00	85.4	71.1	78.7	962.9	9.48	26.2	Start High Span OUT

Manufacturer: RIELLO
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Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15795	4:23:15	85.1	71.2	78.8	962.9	9.48	26.2	
15810	4:23:30	85.2	71.4	79.1	962.9	9.48	26.2	
15825	4:23:45	85.5	71.4	79.3	963.4	9.49	26.2	
15840	4:24:00	85.5	71.6	79.4	963.4	9.49	26.2	
15855	4:24:15	85.6	71.6	79.6	963.4	9.49	26.2	
15870	4:24:30	85.8	71.7	79.7	963.4	9.49	26.3	
15885	4:24:45	85.5	71.8	79.9	963.4	9.49	26.2	
15900	4:25:00	85.7	71.9	80.2	963.5	9.49	26.2	
15915	4:25:15	85.7	72.0	80.3	963.4	9.49	26.3	
15930	4:25:30	85.6	72.1	80.4	964.0	9.49	26.2	
15945	4:25:45	85.6	72.2	80.5	963.9	9.49	26.2	
15960	4:26:00	85.5	72.2	80.6	963.7	9.49	26.2	
15975	4:26:15	85.5	72.3	80.7	963.4	9.49	26.3	
15990	4:26:30	85.4	72.3	80.8	963.4	9.49	26.3	
16005	4:26:45	85.2	72.4	80.9	963.4	9.49	26.3	
16020	4:27:00	85.3	72.4	81.0	964.0	9.49	26.3	
16035	4:27:15	85.4	72.4	81.1	963.4	9.49	26.3	
16050	4:27:30	85.3	72.5	81.3	964.0	9.49	26.3	
16065	4:27:45	85.5	72.6	81.3	964.0	9.49	26.3	
16080	4:28:00	85.3	72.7	81.5	964.0	9.49	26.3	Analyzer High Span OUT
16095	4:28:15	85.5	72.8	81.6	964.0	9.49	26.3	
16110	4:28:30	85.3	72.9	81.8	964.0	9.49	26.3	
16125	4:28:45	85.4	72.9	81.9	964.0	9.49	26.3	
16140	4:29:00	85.4	73.0	82.0	893.7	9.48	26.3	
16155	4:29:15	85.7	73.1	82.0	545.7	5.23	26.2	
16170	4:29:30	85.6	73.1	82.1	500.9	5.03	14.2	
16185	4:29:45	85.7	73.2	82.2	495.0	5.00	14.3	
16200	4:30:00	85.5	73.2	82.3	493.4	4.99	14.4	
16215	4:30:15	85.7	73.3	82.4	492.9	4.99	14.3	
16230	4:30:30	85.6	73.4	82.5	492.9	4.99	14.3	
16245	4:30:45	85.5	73.4	82.6	492.9	4.99	14.3	
16260	4:31:00	85.6	73.5	82.6	492.9	4.99	14.3	Start Mid Span OUT
16275	4:31:15	85.7	73.6	82.8	492.9	4.99	14.3	
16290	4:31:30	85.7	73.6	82.9	492.9	4.99	14.3	
16305	4:31:45	85.5	73.6	82.9	492.9	4.99	14.3	
16320	4:32:00	85.6	73.7	82.9	492.9	4.99	14.3	
16335	4:32:15	85.4	73.7	83.0	492.9	4.99	14.3	
16350	4:32:30	85.5	73.8	83.0	492.9	4.99	14.3	
16365	4:32:45	85.6	73.8	83.1	492.9	4.99	14.3	
16380	4:33:00	85.5	73.9	83.2	492.9	4.99	14.3	
16395	4:33:15	85.6	73.9	83.2	492.9	4.99	14.3	
16410	4:33:30	85.4	73.9	83.3	492.9	4.99	14.3	
16425	4:33:45	85.5	74.0	83.4	492.9	4.99	14.3	
16440	4:34:00	85.4	74.0	83.3	492.9	4.99	14.3	
16455	4:34:15	85.6	74.0	83.4	492.9	4.99	14.3	
16470	4:34:30	85.4	74.0	83.4	492.9	4.99	14.3	
16485	4:34:45	85.3	74.1	83.5	492.9	4.99	14.3	
16500	4:35:00	85.4	74.2	83.6	492.9	4.99	14.3	

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Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
16515	4:35:15	85.2	74.2	83.6	492.9	4.99	14.3	
16530	4:35:30	85.4	74.3	83.7	492.9	4.99	14.3	
16545	4:35:45	85.5	74.3	83.6	492.9	4.99	14.3	
16560	4:36:00	85.7	74.3	83.8	492.9	4.99	14.3	Analyzer Mid Span OUT
16575	4:36:15	85.4	74.3	83.8	492.9	4.99	14.3	
16590	4:36:30	85.6	74.3	83.7	492.9	4.99	14.3	
16605	4:36:45	85.7	74.4	83.9	492.9	4.99	14.3	
16620	4:37:00	85.6	74.4	83.8	492.9	4.99	14.3	
16635	4:37:15	85.4	74.5	83.9	492.9	4.99	14.3	
16650	4:37:30	85.3	74.5	84.0	492.9	4.99	14.3	
16665	4:37:45	85.6	74.6	84.0	492.9	4.99	14.3	
16680	4:38:00	85.7	74.6	84.0	492.9	4.99	14.1	
16695	4:38:15	85.7	74.7	84.0	384.3	4.44	13.9	
16710	4:38:30	85.7	74.8	84.1	249.4	2.63	14.6	
16725	4:38:45	85.5	74.8	84.2	240.0	2.57	10.7	
16740	4:39:00	85.2	74.8	84.1	237.3	2.57	6.8	Start Low Span OUT
16755	4:39:15	85.3	74.9	84.3	236.3	2.57	6.8	
16770	4:39:30	85.2	75.0	84.3	236.3	2.56	6.8	
16785	4:39:45	85.2	75.0	84.3	236.3	2.57	6.8	
16800	4:40:00	85.0	75.1	84.3	236.3	2.56	6.8	
16815	4:40:15	85.0	75.1	84.4	236.3	2.56	6.8	
16830	4:40:30	85.2	75.2	84.5	236.3	2.56	6.8	
16845	4:40:45	85.3	75.2	84.4	236.3	2.56	6.8	
16860	4:41:00	85.5	75.3	84.4	236.3	2.56	6.8	
16875	4:41:15	85.0	75.3	84.5	236.3	2.56	6.8	
16890	4:41:30	85.2	75.3	84.5	236.3	2.56	6.8	
16905	4:41:45	85.2	75.4	84.6	236.3	2.56	6.8	
16920	4:42:00	85.1	75.4	84.6	236.3	2.56	6.8	
16935	4:42:15	85.0	75.6	84.7	236.3	2.56	6.8	
16950	4:42:30	84.8	75.6	84.6	236.3	2.56	6.8	
16965	4:42:45	84.8	75.5	84.7	236.3	2.56	6.8	
16980	4:43:00	84.9	75.6	84.7	236.3	2.56	6.8	
16995	4:43:15	85.1	75.6	84.7	236.3	2.56	6.8	
17010	4:43:30	85.1	75.6	84.7	236.3	2.56	6.8	
17025	4:43:45	85.0	75.7	84.8	236.3	2.56	6.8	
17040	4:44:00	84.8	75.7	84.7	236.3	2.56	6.8	Analyzer Low Span OUT
17055	4:44:15	84.7	75.7	84.8	236.3	2.56	6.8	
17070	4:44:30	84.7	75.8	84.8	236.3	2.56	6.8	
17085	4:44:45	85.0	75.8	84.9	236.3	2.56	6.8	
17100	4:45:00	85.1	75.8	84.9	236.3	2.56	6.7	
17115	4:45:15	85.5	75.8	84.8	69.5	0.68	6.7	
17130	4:45:30	85.4	75.8	84.8	0.0	0.02	5.0	
17145	4:45:45	85.4	75.8	84.8	0.0	0.00	3.1	
17160	4:46:00	85.2	75.9	84.9	0.0	0.00	1.2	
17175	4:46:15	85.3	75.9	84.9	0.0	0.00	1.2	
17190	4:46:30	85.3	75.9	84.9	0.0	0.00	1.1	
17205	4:46:45	85.1	75.9	84.8	0.0	0.00	1.0	
17220	4:47:00	85.3	75.9	84.8	0.0	0.00	1.0	Start Zero Bias OUT

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17235	4:47:15	85.4	75.9	84.9	0.0	0.00	0.9	
17250	4:47:30	85.5	76.0	84.9	0.0	0.00	0.8	
17265	4:47:45	85.3	76.0	84.9	0.0	0.00	0.8	
17280	4:48:00	85.4	75.9	84.8	0.0	0.00	0.7	
17295	4:48:15	85.5	75.9	84.9	0.0	0.00	0.7	
17310	4:48:30	85.7	75.9	84.9	0.0	0.00	0.7	
17325	4:48:45	85.5	76.0	84.9	0.0	0.00	0.6	
17340	4:49:00	85.4	76.0	84.9	0.0	0.00	0.6	
17355	4:49:15	85.4	76.0	84.9	0.0	0.00	0.6	
17370	4:49:30	85.4	76.1	84.9	0.0	0.00	0.5	
17385	4:49:45	85.3	76.1	84.9	0.0	0.00	0.5	
17400	4:50:00	85.3	76.0	84.9	0.0	0.00	0.4	
17415	4:50:15	85.4	76.1	85.0	0.0	0.00	0.4	
17430	4:50:30	85.3	76.1	85.0	0.0	0.00	0.4	
17445	4:50:45	85.0	76.2	85.0	0.0	0.00	0.4	
17460	4:51:00	85.1	76.1	85.0	0.0	0.00	0.4	
17475	4:51:15	85.3	76.1	85.0	0.0	0.00	0.3	
17490	4:51:30	85.5	76.2	85.0	0.0	0.00	0.3	
17505	4:51:45	85.5	76.3	85.0	0.0	0.00	0.3	
17520	4:52:00	85.8	76.3	85.1	0.0	0.00	0.3	System Zero OUT
17535	4:52:15	85.6	76.3	85.1	0.0	0.00	0.3	
17550	4:52:30	85.7	76.4	85.1	0.0	0.00	0.3	
17565	4:52:45	85.7	76.4	85.1	0.0	0.00	0.3	
17580	4:53:00	85.7	76.4	85.1	0.0	0.00	0.2	
17595	4:53:15	85.5	76.4	85.1	0.0	0.00	0.2	
17610	4:53:30	85.5	76.4	85.2	0.0	0.00	0.2	
17625	4:53:45	85.6	76.5	85.1	0.0	0.00	0.2	
17640	4:54:00	85.8	76.5	85.2	226.7	2.28	0.2	
17655	4:54:15	85.6	76.5	85.2	454.8	4.82	0.2	
17670	4:54:30	85.4	76.6	85.2	477.4	4.93	0.2	
17685	4:54:45	85.6	76.6	85.2	482.4	4.96	0.2	
17700	4:55:00	85.8	76.6	85.1	484.4	4.97	0.2	
17715	4:55:15	86.0	76.6	85.2	484.9	4.97	0.2	
17730	4:55:30	85.8	76.6	85.1	484.9	4.97	0.2	
17745	4:55:45	86.0	76.7	85.2	484.4	4.97	0.2	
17760	4:56:00	85.7	76.7	85.2	482.8	4.95	0.2	
17775	4:56:15	86.0	76.7	85.2	480.3	4.92	0.2	
17790	4:56:30	85.8	76.6	85.2	478.6	4.90	0.2	
17805	4:56:45	85.7	76.7	85.2	476.9	4.89	0.2	
17820	4:57:00	85.7	76.7	85.3	475.9	4.88	0.2	Start Mid CO/CO2 Bias OUT
17835	4:57:15	85.5	76.8	85.2	475.4	4.87	0.2	
17850	4:57:30	85.7	76.8	85.2	474.8	4.87	0.2	
17865	4:57:45	85.7	76.8	85.2	474.3	4.86	0.2	
17880	4:58:00	85.7	76.8	85.2	474.3	4.86	0.2	
17895	4:58:15	85.6	76.8	85.2	473.8	4.86	0.2	
17910	4:58:30	85.6	76.9	85.2	473.8	4.86	0.2	
17925	4:58:45	85.7	76.9	85.2	473.8	4.86	0.2	
17940	4:59:00	85.7	76.9	85.2	473.8	4.86	0.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17955	4:59:15	85.7	76.9	85.2	474.8	4.86	0.2	
17970	4:59:30	85.5	76.9	85.2	482.3	4.96	0.1	
17985	4:59:45	85.6	77.0	85.3	484.9	4.98	0.1	
18000	5:00:00	85.6	77.1	85.3	485.5	4.98	0.1	
18015	5:00:15	85.6	77.0	85.2	486.0	4.98	0.1	
18030	5:00:30	85.7	77.0	85.3	486.0	4.98	0.1	
18045	5:00:45	85.9	77.1	85.3	486.0	4.98	0.1	
18060	5:01:00	85.7	77.1	85.2	486.0	4.98	0.1	
18075	5:01:15	85.7	77.1	85.3	486.0	4.98	0.1	
18090	5:01:30	85.7	77.1	85.3	486.0	4.98	0.1	
18105	5:01:45	85.7	77.1	85.3	486.0	4.98	0.1	
18120	5:02:00	85.5	77.2	85.3	486.0	4.98	0.1	System Mid CO/CO2 OUT
18135	5:02:15	85.3	77.3	85.4	486.0	4.98	0.1	
18150	5:02:30	85.1	77.3	85.4	486.0	4.98	0.1	
18165	5:02:45	85.1	77.3	85.4	162.4	1.27	0.1	
18180	5:03:00	85.0	77.4	85.4	208.2	2.43	0.1	
18195	5:03:15	84.8	77.4	85.4	225.7	2.55	0.1	
18210	5:03:30	84.7	77.4	85.4	229.5	2.56	0.1	
18225	5:03:45	85.1	77.5	85.4	230.5	2.56	0.1	
18240	5:04:00	85.2	77.5	85.4	231.1	2.56	0.1	
18255	5:04:15	85.3	77.5	85.4	231.0	2.56	0.1	
18270	5:04:30	84.9	77.6	85.5	231.1	2.56	0.2	
18285	5:04:45	84.9	77.6	85.5	231.0	2.56	0.2	
18300	5:05:00	85.0	77.6	85.5	231.1	2.56	0.2	System Low CO/CO2 OUT
18315	5:05:15	84.9	77.6	85.4	231.1	2.56	0.2	
18330	5:05:30	84.8	77.7	85.5	231.1	2.56	0.2	
18345	5:05:45	84.8	77.7	85.5	231.0	2.56	0.1	
18360	5:06:00	84.8	77.7	85.5	230.5	2.56	0.1	
18375	5:06:15	84.9	77.8	85.6	230.5	2.56	0.1	
18390	5:06:30	85.1	77.8	85.5	230.5	2.56	0.1	
18405	5:06:45	85.6	77.7	85.5	231.1	2.56	0.1	
18420	5:07:00	85.4	77.7	85.5	231.1	2.56	0.1	
18435	5:07:15	85.6	77.7	85.5	230.5	2.56	0.1	
18450	5:07:30	85.6	77.7	85.5	230.5	2.56	0.1	
18465	5:07:45	85.7	77.8	85.5	230.5	2.56	0.1	
18480	5:08:00	85.8	77.8	85.5	231.1	2.56	0.1	
18495	5:08:15	85.8	77.8	85.5	230.5	2.56	0.1	
18510	5:08:30	85.7	77.7	85.4	230.5	2.56	0.1	
18525	5:08:45	85.8	77.7	85.4	230.5	2.56	0.1	
18540	5:09:00	85.8	77.8	85.5	230.5	2.56	0.1	
18555	5:09:15	85.9	77.8	85.4	230.5	2.56	0.1	
18570	5:09:30	85.9	77.8	85.4	231.1	2.56	0.1	
18585	5:09:45	86.0	77.8	85.5	230.5	2.56	0.1	
18600	5:10:00	85.9	77.8	85.5	230.5	2.56	0.1	System Low CO/CO2 OUT
18615	5:10:15	86.0	77.8	85.4	230.5	2.56	0.1	
18630	5:10:30	85.9	77.9	85.4	230.5	2.56	0.1	
18645	5:10:45	85.9	77.9	85.5	227.9	2.56	0.1	
18660	5:11:00	85.9	77.9	85.4	45.3	0.43	0.1	

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Date: June 22, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
18675	5:11:15	85.9	77.9	85.4	1.7	0.10	0.1	
18690	5:11:30	85.6	78.0	85.5	0.0	0.06	0.5	
18705	5:11:45	85.6	78.0	85.5	0.0	0.04	0.3	
18720	5:12:00	85.5	78.0	85.4	0.0	0.04	0.1	
18735	5:12:15	85.8	77.9	85.5	0.0	0.04	0.1	
18750	5:12:30	85.9	77.9	85.4	0.0	0.04	0.1	
18765	5:12:45	85.9	78.0	85.4	0.0	0.04	0.2	
18780	5:13:00	85.6	77.9	85.4	0.0	0.04	6.8	Start Mid NOx Bias OUT
18795	5:13:15	85.8	78.0	85.4	0.0	0.05	13.3	
18810	5:13:30	85.8	78.0	85.4	0.0	0.05	13.8	
18825	5:13:45	85.9	78.0	85.4	0.0	0.05	13.8	
18840	5:14:00	85.8	78.0	85.4	0.0	0.05	13.9	
18855	5:14:15	85.6	78.1	85.5	0.0	0.05	13.9	
18870	5:14:30	85.3	78.2	85.5	0.0	0.05	14.0	
18885	5:14:45	85.6	78.1	85.5	0.0	0.05	14.0	
18900	5:15:00	85.6	78.2	85.4	0.0	0.06	14.0	
18915	5:15:15	85.6	78.2	85.4	0.0	0.06	14.0	
18930	5:15:30	85.1	78.2	85.5	0.0	0.06	14.0	
18945	5:15:45	85.3	78.2	85.5	0.0	0.06	14.0	
18960	5:16:00	85.2	78.2	85.4	0.0	0.06	14.0	
18975	5:16:15	85.1	78.2	85.4	0.0	0.06	14.0	
18990	5:16:30	85.2	78.3	85.5	0.0	0.06	14.0	
19005	5:16:45	85.4	78.2	85.4	0.0	0.06	14.1	
19020	5:17:00	85.1	78.3	85.5	0.0	0.06	14.1	
19035	5:17:15	85.0	78.3	85.5	0.0	0.06	14.1	
19050	5:17:30	85.2	78.3	85.5	0.0	0.06	14.1	
19065	5:17:45	85.3	78.4	85.5	0.0	0.07	14.1	
19080	5:18:00	85.7	78.4	85.5	0.0	0.07	14.1	System Mid NOx OUT
19095	5:18:15	85.7	78.3	85.4	0.0	0.07	14.1	
19110	5:18:30	85.7	78.3	85.4	0.0	0.07	14.1	
19125	5:18:45	85.6	78.4	85.5	0.0	0.07	14.0	
19140	5:19:00	85.6	78.4	85.5	0.0	0.07	14.1	
19155	5:19:15	85.5	78.4	85.5	0.0	0.07	14.1	
19170	5:19:30	85.6	78.4	85.3	0.0	0.07	14.1	
19185	5:19:45	85.7	78.4	85.5	0.0	0.07	14.1	
19200	5:20:00	85.3	78.5	85.4	0.0	0.08	13.9	
19215	5:20:15	85.1	78.3	85.4	0.0	0.08	13.8	
19230	5:20:30	84.9	78.5	85.5	0.0	0.08	3.7	
19245	5:20:45	84.9	78.4	85.4	0.0	0.08	4.5	
19260	5:21:00	84.8	78.5	85.4	0.0	0.08	6.0	Start Low NOx Bias OUT
19275	5:21:15	84.9	78.5	85.4	0.0	0.08	6.7	
19290	5:21:30	85.5	78.6	85.5	0.0	0.08	6.7	
19305	5:21:45	85.7	78.6	85.5	0.0	0.08	6.7	
19320	5:22:00	85.5	78.6	85.4	0.0	0.09	6.7	
19335	5:22:15	85.9	78.5	85.4	0.0	0.09	6.7	
19350	5:22:30	86.0	78.6	85.4	0.0	0.09	6.7	
19365	5:22:45	85.9	78.5	85.4	0.0	0.09	6.7	
19380	5:23:00	85.5	78.6	85.4	0.0	0.09	6.7	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 22, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
19395	5:23:15	85.8	78.6	85.4	0.0	0.09	6.7	System Low NOx OUT
19410	5:23:30	85.7	78.6	85.4	0.0	0.09	6.7	
19425	5:23:45	85.3	78.6	85.4	0.0	0.09	6.7	
19440	5:24:00	85.7	78.6	85.4	0.0	0.10	6.7	
19455	5:24:15	85.5	78.7	85.5	0.0	0.10	6.7	
19470	5:24:30	85.5	78.6	85.4	0.0	0.10	6.7	
19485	5:24:45	85.2	78.7	85.4	0.0	0.10	6.7	
19500	5:25:00	85.1	78.7	85.4	0.0	0.10	6.7	
19515	5:25:15	85.2	78.7	85.5	0.0	0.10	6.7	
19530	5:25:30	85.3	78.7	85.5	0.0	0.10	6.7	
19545	5:25:45	85.3	78.8	85.4	0.0	0.10	6.7	
19560	5:26:00	85.3	78.8	85.5	0.0	0.10	6.7	
19575	5:26:15	85.5	78.7	85.4	0.0	0.11	6.7	
19590	5:26:30	85.6	78.8	85.4	0.0	0.11	6.7	
Average = 84.0								

APPENDIX C

Test Results for:

SSB512

High & Intermediate Run#: 2 & 3

Date: June 23, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Maximum Rate

Input Rate = 488,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	79.9	79.9	°F
Relative Humidity	62	62	%
Barometer	28.78	28.78	in.Hg
Heating Value	1088	1088	BTU/ft ³
Inlet Pressure	13.4	13.4	in.w.c.
Manifold Pressure	0.10	0.10	in.w.c.
Gas Meter Reading	4147.84	4379.28	ft ³
Gas Temperature	77.0	77.0	°F
Water Meter Reading	691703.80	691965.2	gal

Mass	2177.5	lb
Di	8.330	lb/gal
Dn	8.242	lb/gal

Tin	68.9	°F
Tdel	178.8	°F

Calculations		
Test Start	1:37:00	h:mm:ss
Test End	2:07:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	483,882	BTU/hr
Cf	1.099	no units
Ho	238,824	BTU
Uncorrected Volume	231.44	ft ³
Pressure Correction	0.992	no units
Meter Correction	1.000	no units
Temperature Correction	0.968	no units
F	222.37	ft ³
C	8.9	%
P	13.5	ppm

N = 8.1 ng/J
15.6 ppm @ 3% O₂

Date: June 23, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Maximum Rate

Input Rate = 488,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	82.4	80.9	°F
Relative Humidity	55	55	%
Barometer	28.84	28.84	in.Hg
Heating Value	1088	1088	BTU/ft ³
Inlet Pressure	13.4	13.4	in.w.c.
Manifold Pressure	0.10	0.10	in.w.c.
Gas Meter Reading	5104.31	5335.42	ft ³
Gas Temperature	79.0	79.0	°F
Water Meter Reading	692920.80	693180.9	gal

Mass	2166.6	lb
Di	8.330	lb/gal
Dn	8.241	lb/gal

Tin	69.1	°F
Tdel	179.3	°F

Calculations		
Test Start	4:16:00	h:mm:ss
Test End	4:46:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	482,368	BTU/hr
Cf	1.099	no units
Ho	238,280	BTU
Uncorrected Volume	231.11	ft ³
Pressure Correction	0.994	no units
Meter Correction	1.000	no units
Temperature Correction	0.965	no units
F	221.68	ft ³
C	8.8	%
P	15.0	ppm

N = 9.1 ng/J
17.4 ppm @ 3% O₂

Date: June 23, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Intermediate Rate

Input Rate = 244,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	80.9	80.0	°F
Relative Humidity	62	62	%
Barometer	28.80	28.8	in.Hg
Heating Value	1088	1088	BTU/ft ³
Inlet Pressure	9.1	9.1	in.w.c.
Manifold Pressure	0.10	0.1	in.w.c.
Gas Meter Reading	4508.81	4626.74	ft ³
Gas Temperature	78.0	78.0	°F
Water Meter Reading	692122.10	692254.40	gal

Mass	1101.8	lb
Di	8.328	lb/gal
Dn	8.238	lb/gal

Tin	71.0	°F
Tdel	180.1	°F

Calculations		
Test Start	2:25:00	h:mm:ss
Test End	2:55:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	243,648	BTU/hr
Cf	1.099	no units
Ho	119,964	BTU
Uncorrected Volume	117.93	ft ³
Pressure Correction	0.982	no units
Meter Correction	1.000	no units
Temperature Correction	0.967	no units
F	111.97	ft ³
C	8.9	%
P	15.7	ppm

N = 9.4 ng/J
18.1 ppm @ 3% O₂

Date: June 23, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Intermediate Rate

Input Rate = 244,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	82.8	81.5	°F
Relative Humidity	55	55	%
Barometer	28.85	28.85	in.Hg
Heating Value	1088	1088	BTU/ft ³
Inlet Pressure	9.1	9.1	in.w.c.
Manifold Pressure	0.10	0.1	in.w.c.
Gas Meter Reading	5489.43	5607.34	ft ³
Gas Temperature	80.0	80.0	°F
Water Meter Reading	693366.30	693498.80	gal

Mass	1103.4	lb
Di	8.328	lb/gal
Dn	8.238	lb/gal

Tin	71.3	°F
Tdel	180.0	°F

Calculations		
Test Start	5:19:00	h:mm:ss
Test End	5:49:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	243,116	BTU/hr
Cf	1.099	no units
Ho	119,700	BTU
Uncorrected Volume	117.91	ft ³
Pressure Correction	0.984	no units
Meter Correction	1.000	no units
Temperature Correction	0.963	no units
F	111.73	ft ³
C	8.9	%
P	16.0	ppm

N = 9.6 ng/J
18.4 ppm @ 3% O₂

Date: June 23, 2015

High & Intermediate Run#: 2 & 3

Manufacturer: RIELLO
Model No.: SSB 512
Serial No.: NONE

Analytic Ranges
NOx = 30 ppm
CO2 = 10 %
CO = 1000 ppm

Pretest Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)	
NOx Zero	0	0.00			0.00	0.04			-0.13
NOx Low	6.95	6.92			0.10	6.76			0.63
NOx Mid	14.56	14.53			0.10	14.23			1.10
NOx High	26.66	26.71			-0.17				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.58		0.14		2.58		0.14
CO2 Mid	5.007		5.01		-0.03		5.00		0.07
CO2 High	9.488		9.49		-0.02				
CO Zero	0			0	0.00			0	0.00
CO Low	249.0			243	0.62			239	1.04
CO Mid	502.5			503	-0.01			495	0.74
CO High	976			975	0.07				

Post Test Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)	System Drift (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)		
NOx Zero	0	0.04			-0.13	0.41			-1.37	1.23
NOx Low	6.95	6.85			0.33	6.73			0.73	-0.10
NOx Mid	14.56	14.37			0.63	14.18			1.27	-0.17
NOx High	26.66	26.62			0.13					
CO2 Zero	0		0.00		0.00		0.00		0.00	0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24	-0.10
CO2 Mid	5.007		5.00		0.07		4.99		0.17	-0.10
CO2 High	9.488		9.49		-0.02					
CO Zero	0			0	0.00			0.0	0.00	0.00
CO Low	249.0			237	1.21			233	1.64	-0.59
CO Mid	502.5			495	0.80			488	1.49	-0.75
CO High	976			966	1.05					

Calibration Linearity

NOx Pretest	0.191
CO2 Pretest	-0.019
CO Pretest	-0.047

NOx Post Test	0.488
CO2 Post Test	0.081
CO Post Test	0.262

Gas Cylinders

Cylinder #	Concentration
EB0018049	Low NOX = 6.95 ppm
CC100400	Mid NOX = 14.56 ppm
CC267435	High NOX = 26.66 ppm
CC129082	CO2 Low = 2.594 %
	CO Low = 249 ppm
CC25693	CO2 Mid = 5.007 %
	CO Mid = 502.5 ppm
CC353963	CO2 High = 9.488 %
	CO High = 976 ppm

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	77.3	74.7	75.0	0.0	0.00	0.0	
15	0:00:15	77.3	74.8	75.0	0.0	0.00	0.0	
30	0:00:30	77.3	74.9	75.0	0.0	0.00	0.0	
45	0:00:45	77.3	74.8	75.0	0.0	0.00	0.0	
60	0:01:00	77.3	74.9	75.0	0.0	0.00	0.0	Start Zero IN
75	0:01:15	77.2	74.9	75.0	0.0	0.00	0.0	
90	0:01:30	77.3	75.0	75.1	0.0	0.00	0.0	
105	0:01:45	77.2	74.9	75.0	0.0	0.00	0.0	
120	0:02:00	76.9	75.0	75.0	0.0	0.00	0.0	
135	0:02:15	76.6	74.9	75.0	0.0	0.00	0.0	
150	0:02:30	76.4	75.0	75.1	0.0	0.00	0.0	
165	0:02:45	76.4	74.9	75.1	0.0	0.00	0.0	
180	0:03:00	76.5	74.9	75.1	0.0	0.00	0.0	
195	0:03:15	76.4	74.9	75.1	0.0	0.00	0.0	
210	0:03:30	76.5	75.1	75.2	0.0	0.00	0.0	
225	0:03:45	76.5	74.9	75.1	0.0	0.00	0.0	
240	0:04:00	76.7	75.0	75.1	0.0	0.00	0.0	
255	0:04:15	76.7	74.9	75.1	0.0	0.00	0.0	
270	0:04:30	77.0	75.0	75.0	0.0	0.00	0.0	
285	0:04:45	76.9	75.0	75.1	0.0	0.00	0.0	
300	0:05:00	76.8	74.9	75.1	0.0	0.00	0.0	
315	0:05:15	76.6	75.0	75.1	0.0	0.00	0.0	
330	0:05:30	76.5	74.9	75.1	0.0	0.00	0.0	
345	0:05:45	76.6	75.0	75.1	0.0	0.00	0.0	
360	0:06:00	76.9	75.0	75.1	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	76.6	75.0	75.1	0.0	0.00	0.0	
390	0:06:30	76.2	75.0	75.1	0.0	0.00	0.0	
405	0:06:45	76.4	75.0	75.1	0.0	0.00	0.0	
420	0:07:00	76.1	75.0	75.1	460.9	2.13	0.0	
435	0:07:15	75.9	74.9	75.0	915.8	9.12	5.8	
450	0:07:30	76.1	75.0	75.1	964.1	9.43	18.8	
465	0:07:45	76.2	75.0	75.1	971.6	9.49	25.9	
480	0:08:00	76.2	75.0	75.1	974.2	9.50	26.6	
495	0:08:15	75.8	75.0	75.1	975.3	9.50	26.8	
510	0:08:30	76.0	75.0	75.1	975.8	9.51	26.9	
525	0:08:45	75.7	75.0	75.1	975.8	9.51	27.0	
540	0:09:00	75.8	75.0	75.1	975.8	9.51	27.0	Start High Span IN
555	0:09:15	76.0	75.0	75.1	976.1	9.51	27.0	
570	0:09:30	76.1	75.0	75.1	975.8	9.51	27.0	
585	0:09:45	76.0	75.0	75.1	975.8	9.51	27.1	
600	0:10:00	76.1	75.0	75.1	976.3	9.51	27.1	
615	0:10:15	76.2	75.0	75.1	977.4	10.50	27.1	
630	0:10:30	76.4	75.0	75.1	976.4	9.49	27.1	
645	0:10:45	76.7	75.0	75.1	1050.3	9.49	27.1	
660	0:11:00	76.8	75.0	75.1	1050.4	9.49	27.1	
675	0:11:15	76.8	75.0	75.1	1050.3	9.49	27.1	
690	0:11:30	76.5	75.0	75.0	975.3	9.49	26.7	
705	0:11:45	76.4	75.0	75.1	975.3	9.49	26.7	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	76.8	75.0	75.1	975.3	9.49	26.7	
735	0:12:15	77.0	75.0	75.1	975.3	9.49	26.7	
750	0:12:30	76.6	75.0	75.1	975.3	9.49	26.7	
765	0:12:45	76.5	75.0	75.1	975.3	9.49	26.7	
780	0:13:00	76.6	75.0	75.1	975.3	9.49	26.7	
795	0:13:15	76.2	75.0	75.1	975.3	9.49	26.7	
810	0:13:30	76.0	75.0	75.2	975.3	9.49	26.7	
825	0:13:45	75.8	75.0	75.1	975.3	9.49	26.8	
840	0:14:00	75.8	75.0	75.1	975.3	9.49	26.7	Analyzer High Span IN
855	0:14:15	75.8	75.0	75.0	975.3	9.49	26.7	
870	0:14:30	75.8	75.0	75.2	975.8	9.49	26.7	
885	0:14:45	76.1	75.1	75.2	975.3	9.49	26.7	
900	0:15:00	75.9	75.0	75.1	975.3	9.49	26.8	
915	0:15:15	76.2	75.1	75.2	847.9	9.07	26.7	
930	0:15:30	75.8	75.1	75.2	538.0	5.13	20.0	
945	0:15:45	75.7	75.1	75.1	508.5	5.02	13.4	
960	0:16:00	75.8	75.1	75.2	504.2	5.01	14.4	
975	0:16:15	75.9	75.1	75.2	502.6	5.00	14.4	
990	0:16:30	76.0	75.0	75.1	502.6	5.01	14.5	
1005	0:16:45	76.0	75.0	75.1	502.1	5.00	14.5	
1020	0:17:00	75.9	75.1	75.2	502.1	5.00	14.5	Start Mid Span IN
1035	0:17:15	76.3	75.1	75.1	502.1	5.01	14.5	
1050	0:17:30	76.2	75.0	75.2	502.1	5.01	14.5	
1065	0:17:45	76.3	75.1	75.1	502.1	5.00	14.5	
1080	0:18:00	76.5	75.0	75.2	502.1	5.00	14.5	
1095	0:18:15	76.6	75.0	75.1	502.1	5.00	14.5	
1110	0:18:30	76.5	75.0	75.1	502.1	5.00	14.5	
1125	0:18:45	76.4	75.0	75.1	502.1	5.01	14.5	
1140	0:19:00	76.2	75.0	75.1	502.1	5.00	14.5	
1155	0:19:15	76.0	75.0	75.2	502.1	5.00	14.5	
1170	0:19:30	76.0	75.0	75.1	502.1	5.00	14.5	
1185	0:19:45	76.2	75.0	75.2	502.1	5.00	14.5	
1200	0:20:00	76.3	75.0	75.2	502.1	5.00	14.5	
1215	0:20:15	76.7	75.0	75.1	502.1	5.00	14.5	
1230	0:20:30	76.8	75.0	75.2	502.1	5.00	14.5	
1245	0:20:45	77.0	75.0	75.1	502.6	5.00	14.5	
1260	0:21:00	77.2	75.0	75.1	502.6	5.00	14.5	
1275	0:21:15	77.5	75.0	75.1	502.1	5.00	14.5	
1290	0:21:30	77.4	75.0	75.2	502.6	5.00	14.6	
1305	0:21:45	77.5	75.1	75.2	502.6	5.00	14.6	
1320	0:22:00	77.7	74.3	75.4	502.6	5.01	14.5	Analyzer Mid Span IN
1335	0:22:15	77.7	74.6	75.2	502.6	5.00	14.5	
1350	0:22:30	78.0	69.7	75.3	502.6	5.00	14.5	
1365	0:22:45	78.5	68.3	77.1	502.1	5.00	14.5	
1380	0:23:00	78.6	68.1	77.2	473.3	4.99	13.9	
1395	0:23:15	78.9	68.0	77.2	271.6	2.65	14.3	
1410	0:23:30	79.1	67.9	77.1	248.2	2.59	10.6	
1425	0:23:45	79.1	67.8	76.8	244.4	2.57	6.6	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	79.1	67.7	76.4	243.4	2.57	6.7	
1455	0:24:15	79.2	67.6	76.1	243.4	2.57	6.8	
1470	0:24:30	79.2	67.4	75.7	242.8	2.57	6.9	
1485	0:24:45	79.1	67.2	74.3	242.8	2.57	6.9	
1500	0:25:00	79.2	67.4	72.9	243.4	2.57	6.9	Start Low Span IN
1515	0:25:15	79.3	67.4	71.7	243.4	2.57	6.9	
1530	0:25:30	79.4	67.5	70.7	243.4	2.57	6.9	
1545	0:25:45	79.4	67.6	69.9	243.4	2.57	6.9	
1560	0:26:00	79.6	67.6	69.2	243.4	2.57	6.9	
1575	0:26:15	79.6	67.7	68.9	243.4	2.57	6.9	
1590	0:26:30	79.7	67.7	69.4	243.4	2.57	6.9	
1605	0:26:45	79.9	67.9	73.2	242.8	2.57	6.9	
1620	0:27:00	79.9	67.8	95.5	243.4	2.57	6.9	
1635	0:27:15	79.9	67.8	119.1	243.4	2.57	6.9	
1650	0:27:30	79.9	67.9	140.5	242.8	2.57	6.9	
1665	0:27:45	79.6	68.0	210.6	242.8	2.58	6.9	
1680	0:28:00	79.3	68.0	232.8	242.8	2.57	6.9	
1695	0:28:15	79.1	68.1	260.0	242.8	2.57	6.9	
1710	0:28:30	79.1	68.2	246.9	242.8	2.57	6.9	
1725	0:28:45	79.1	68.2	223.7	242.8	2.57	6.9	
1740	0:29:00	79.0	68.0	215.0	242.8	2.57	6.9	
1755	0:29:15	79.1	69.7	212.0	242.8	2.57	6.9	
1770	0:29:30	79.0	73.1	169.5	242.8	2.57	6.9	
1785	0:29:45	79.1	74.2	120.3	242.8	2.57	6.9	
1800	0:30:00	79.5	75.2	95.9	242.8	2.58	6.9	Analyzer Low Span IN
1815	0:30:15	79.7	75.4	83.6	242.8	2.57	6.9	
1830	0:30:30	79.8	74.0	77.4	242.8	2.57	6.9	
1845	0:30:45	79.8	73.0	75.1	242.8	2.57	6.9	
1860	0:31:00	79.8	71.8	83.3	242.8	2.57	6.9	
1875	0:31:15	79.8	70.8	109.5	242.8	2.57	6.8	
1890	0:31:30	79.7	69.8	127.2	242.8	2.57	6.8	
1905	0:31:45	79.6	69.3	131.2	232.3	2.58	6.8	
1920	0:32:00	79.3	68.9	132.1	40.6	0.24	7.1	
1935	0:32:15	79.4	68.6	131.5	5.4	0.03	3.7	
1950	0:32:30	79.6	68.3	131.3	0.6	0.01	0.2	
1965	0:32:45	79.6	68.0	130.5	0.0	0.00	0.1	
1980	0:33:00	79.5	67.8	129.1	0.0	0.00	0.1	Start Zero Bias IN
1995	0:33:15	79.5	67.5	127.4	0.0	0.00	0.1	
2010	0:33:30	79.3	67.6	126.0	0.0	0.00	0.1	
2025	0:33:45	79.2	67.8	125.5	0.0	0.00	0.1	
2040	0:34:00	79.4	67.9	125.2	0.0	0.00	0.1	
2055	0:34:15	79.7	67.9	125.6	0.0	0.00	0.1	
2070	0:34:30	80.1	67.9	125.3	0.0	0.00	0.1	
2085	0:34:45	80.4	67.7	125.3	0.0	0.00	0.1	
2100	0:35:00	80.4	67.7	125.4	0.0	0.00	0.1	
2115	0:35:15	80.5	67.6	125.5	0.0	0.00	0.1	
2130	0:35:30	80.6	67.5	125.3	0.0	0.00	0.1	
2145	0:35:45	80.8	67.4	125.4	0.0	0.00	0.1	

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Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	81.0	67.3	125.2	0.0	0.00	0.1	
2175	0:36:15	81.1	67.3	125.3	0.0	0.00	0.1	
2190	0:36:30	81.0	67.3	125.0	0.0	0.00	0.1	
2205	0:36:45	81.0	67.2	124.7	0.0	0.00	0.1	
2220	0:37:00	80.7	67.1	125.1	0.0	0.00	0.0	
2235	0:37:15	80.4	67.1	125.1	0.0	0.00	0.0	
2250	0:37:30	80.2	67.0	124.8	0.0	0.00	0.0	
2265	0:37:45	80.1	67.0	124.9	0.0	0.00	0.0	
2280	0:38:00	79.9	66.9	125.0	0.0	0.00	0.0	System Zero IN
2295	0:38:15	80.0	66.8	124.8	0.0	0.00	0.0	
2310	0:38:30	80.0	66.7	128.0	0.0	0.00	0.0	
2325	0:38:45	80.0	66.8	97.6	0.0	0.00	0.0	
2340	0:39:00	79.9	66.7	78.4	0.0	0.00	0.0	
2355	0:39:15	79.9	66.6	72.4	0.0	0.00	0.0	
2370	0:39:30	79.8	66.6	82.8	0.0	0.00	0.0	
2385	0:39:45	79.8	66.5	118.4	0.0	0.00	0.0	
2400	0:40:00	79.9	66.3	152.0	28.8	0.08	0.0	
2415	0:40:15	80.0	66.1	167.2	407.9	4.64	0.1	
2430	0:40:30	79.9	65.8	172.8	481.9	4.91	0.1	
2445	0:40:45	79.9	65.8	175.4	490.1	4.97	0.1	
2460	0:41:00	80.0	66.0	176.7	493.0	4.98	0.1	Start Mid CO/CO2 Bias IN
2475	0:41:15	80.0	66.4	177.3	494.1	4.99	0.1	
2490	0:41:30	79.8	66.7	177.5	494.6	4.99	0.1	
2505	0:41:45	80.1	67.0	177.2	494.6	4.99	0.1	
2520	0:42:00	80.0	67.3	177.2	495.2	5.00	0.1	
2535	0:42:15	80.0	67.6	177.8	495.2	5.00	0.1	
2550	0:42:30	80.0	67.7	178.0	495.2	5.00	0.1	
2565	0:42:45	80.1	67.9	178.4	495.2	5.00	0.1	
2580	0:43:00	80.3	68.1	178.4	495.2	5.00	0.1	
2595	0:43:15	80.4	68.1	178.9	495.2	5.00	0.1	
2610	0:43:30	80.4	68.1	179.0	495.2	5.00	0.1	
2625	0:43:45	80.3	68.1	178.8	495.2	5.00	0.1	
2640	0:44:00	79.9	68.2	179.2	495.2	5.00	0.1	
2655	0:44:15	79.9	68.2	179.1	495.2	5.00	0.1	
2670	0:44:30	80.1	68.2	179.6	495.7	5.00	0.1	
2685	0:44:45	80.2	68.2	179.6	495.2	5.00	0.1	
2700	0:45:00	80.3	68.2	180.0	495.2	5.00	0.1	
2715	0:45:15	80.3	68.1	179.6	495.2	5.00	0.1	
2730	0:45:30	80.2	68.1	179.6	495.2	5.00	0.1	
2745	0:45:45	80.0	68.2	179.6	495.2	5.00	0.1	
2760	0:46:00	80.1	68.1	179.7	495.2	5.00	0.1	System Mid CO/CO2 IN
2775	0:46:15	80.1	68.0	179.9	495.2	5.00	0.0	
2790	0:46:30	80.2	68.0	179.7	495.1	5.00	0.0	
2805	0:46:45	80.6	68.0	179.8	495.1	5.00	0.0	
2820	0:47:00	80.7	68.0	179.6	463.3	5.00	0.0	
2835	0:47:15	80.6	68.1	179.6	80.3	0.52	0.1	
2850	0:47:30	80.7	68.1	179.7	178.3	2.11	0.1	
2865	0:47:45	80.9	68.1	180.0	230.1	2.55	0.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	81.0	68.2	180.2	235.9	2.58	0.1	
2895	0:48:15	80.9	68.2	179.9	238.0	2.58	0.0	
2910	0:48:30	81.0	68.2	179.7	238.6	2.58	0.0	
2925	0:48:45	81.1	68.1	179.7	239.1	2.58	0.0	
2940	0:49:00	81.2	68.2	179.8	239.1	2.58	0.0	Start Low CO/CO2 Bias IN
2955	0:49:15	81.2	68.2	179.6	239.1	2.58	0.0	
2970	0:49:30	81.0	68.0	179.3	239.1	2.58	0.0	
2985	0:49:45	81.0	68.1	179.0	239.1	2.59	0.0	
3000	0:50:00	80.9	68.0	179.1	239.1	2.58	0.0	
3015	0:50:15	81.0	68.0	179.1	239.1	2.58	0.0	
3030	0:50:30	81.0	68.1	179.3	239.1	2.58	0.0	
3045	0:50:45	80.9	68.1	179.3	239.1	2.58	0.0	
3060	0:51:00	80.9	68.2	178.9	239.1	2.58	0.0	
3075	0:51:15	80.8	68.6	178.7	239.1	2.58	0.0	
3090	0:51:30	80.8	68.6	178.6	239.1	2.58	0.0	
3105	0:51:45	80.8	68.6	178.9	238.6	2.58	0.0	
3120	0:52:00	80.9	68.7	179.1	238.6	2.58	0.0	
3135	0:52:15	80.8	68.6	178.9	239.1	2.58	0.0	
3150	0:52:30	80.8	68.7	178.9	239.1	2.58	0.0	
3165	0:52:45	80.7	68.8	178.9	239.1	2.58	0.0	
3180	0:53:00	80.6	68.6	179.0	238.6	2.58	0.0	
3195	0:53:15	80.7	68.6	179.1	238.6	2.58	0.0	
3210	0:53:30	80.8	68.6	179.3	238.6	2.58	0.0	
3225	0:53:45	80.7	68.5	179.4	238.6	2.58	0.0	
3240	0:54:00	80.8	68.5	178.9	238.6	2.58	0.0	System Low CO/CO2 IN
3255	0:54:15	80.6	68.5	178.9	238.6	2.58	0.0	
3270	0:54:30	80.8	68.4	178.9	238.6	2.58	0.0	
3285	0:54:45	80.9	68.5	179.3	222.6	2.58	0.0	
3300	0:55:00	81.0	68.5	178.7	37.9	0.33	0.0	
3315	0:55:15	80.9	68.4	178.7	4.4	0.05	0.6	
3330	0:55:30	80.8	68.4	178.7	0.0	0.02	7.6	
3345	0:55:45	80.6	68.7	178.4	0.0	0.02	14.0	
3360	0:56:00	80.5	68.7	178.4	0.0	0.02	14.1	
3375	0:56:15	80.6	68.8	178.5	0.0	0.02	14.2	
3390	0:56:30	80.7	68.8	178.3	0.0	0.02	14.2	
3405	0:56:45	80.8	68.7	178.3	0.0	0.02	14.2	
3420	0:57:00	80.8	68.8	178.5	0.0	0.02	14.2	Start Mid NOx Bias IN
3435	0:57:15	80.9	68.8	178.6	0.0	0.02	14.2	
3450	0:57:30	80.7	68.7	178.8	0.0	0.02	14.2	
3465	0:57:45	80.7	68.8	179.0	0.0	0.02	14.2	
3480	0:58:00	80.9	68.6	178.8	0.0	0.02	14.2	
3495	0:58:15	81.0	68.7	178.5	0.0	0.02	14.2	
3510	0:58:30	80.9	68.6	178.8	0.0	0.02	14.2	
3525	0:58:45	80.8	68.6	178.6	0.0	0.02	14.2	
3540	0:59:00	80.8	68.7	178.9	0.0	0.02	14.2	
3555	0:59:15	80.7	68.6	178.6	0.0	0.02	14.2	
3570	0:59:30	80.8	68.6	178.6	0.0	0.02	14.2	
3585	0:59:45	80.8	68.7	178.3	0.0	0.02	14.3	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	80.8	68.7	178.5	0.0	0.02	14.2	
3615	1:00:15	80.8	68.7	178.4	0.0	0.02	14.2	
3630	1:00:30	80.5	68.6	178.8	0.0	0.02	14.2	
3645	1:00:45	80.7	68.8	178.7	0.0	0.03	14.2	
3660	1:01:00	80.7	68.7	178.7	0.0	0.03	14.3	
3675	1:01:15	80.8	68.8	178.5	0.0	0.03	14.3	
3690	1:01:30	81.0	68.7	178.6	0.0	0.03	14.3	
3705	1:01:45	80.9	68.7	178.6	0.0	0.03	14.3	
3720	1:02:00	80.8	68.6	178.7	0.0	0.03	14.2	System Mid NOx IN
3735	1:02:15	80.5	68.6	178.5	0.0	0.03	14.2	
3750	1:02:30	80.6	68.6	178.5	0.0	0.03	14.2	
3765	1:02:45	80.6	68.7	178.1	0.0	0.03	14.2	
3780	1:03:00	80.5	68.7	178.4	0.0	0.03	14.2	
3795	1:03:15	80.5	68.8	178.3	0.0	0.03	7.9	
3810	1:03:30	80.7	68.8	178.4	0.0	0.03	1.0	
3825	1:03:45	80.8	68.7	179.0	0.0	0.03	0.5	
3840	1:04:00	81.1	68.7	178.7	0.0	0.04	6.5	
3855	1:04:15	80.8	68.6	178.7	0.0	0.04	6.6	
3870	1:04:30	80.9	68.6	179.1	0.0	0.04	6.7	
3885	1:04:45	81.0	68.7	179.4	0.0	0.04	6.8	
3900	1:05:00	81.0	68.7	179.5	0.0	0.04	6.8	Start Low NOx Bias IN
3915	1:05:15	81.0	68.7	178.9	0.0	0.04	6.8	
3930	1:05:30	80.8	68.7	178.9	0.0	0.04	6.8	
3945	1:05:45	80.8	68.6	179.2	0.0	0.04	6.8	
3960	1:06:00	80.8	68.7	179.2	0.0	0.04	6.8	
3975	1:06:15	80.9	68.6	179.2	0.0	0.04	6.8	
3990	1:06:30	80.9	68.6	179.2	0.0	0.04	6.8	
4005	1:06:45	80.9	68.7	179.0	0.0	0.05	6.8	
4020	1:07:00	81.0	68.7	178.9	0.0	0.05	6.8	
4035	1:07:15	80.9	68.7	179.1	0.0	0.05	6.8	
4050	1:07:30	80.9	68.7	179.1	0.0	0.05	6.8	
4065	1:07:45	81.0	68.5	179.7	0.0	0.05	6.8	
4080	1:08:00	81.0	68.6	179.0	0.0	0.05	6.8	
4095	1:08:15	80.8	68.6	178.9	0.0	0.05	6.8	
4110	1:08:30	80.7	68.6	179.1	0.0	0.05	6.8	
4125	1:08:45	80.6	68.7	179.3	0.0	0.05	6.8	
4140	1:09:00	80.8	68.6	179.2	0.0	0.05	6.8	
4155	1:09:15	80.8	68.6	179.2	0.0	0.05	6.8	
4170	1:09:30	80.9	68.5	179.0	0.0	0.05	6.8	
4185	1:09:45	81.0	68.7	179.7	0.0	0.05	6.8	
4200	1:10:00	81.2	68.6	179.5	0.0	0.06	6.8	System Low NOx IN
4215	1:10:15	81.2	68.5	179.1	0.0	0.06	6.8	
4230	1:10:30	81.2	68.5	179.3	0.0	0.06	6.8	
4245	1:10:45	81.0	68.5	179.1	0.0	0.04	6.8	
4260	1:11:00	80.9	68.4	179.0	2.8	0.18	6.7	
4275	1:11:15	80.9	68.4	179.1	0.0	0.08	4.4	
4290	1:11:30	80.9	68.5	179.2	0.0	0.06	1.1	
4305	1:11:45	81.0	68.5	178.9	0.0	0.07	0.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
4320	1:12:00	80.8	68.3	179.1	0.0	0.07	0.2	
4335	1:12:15	82.1	68.4	179.1	0.0	0.07	0.2	
4350	1:12:30	82.1	68.4	179.0	0.0	0.07	0.5	
4365	1:12:45	80.5	68.3	178.8	0.0	0.07	0.9	
4380	1:13:00	79.3	68.4	179.2	0.0	0.07	0.2	
4395	1:13:15	78.9	68.3	179.0	0.0	0.07	0.2	
4410	1:13:30	78.4	68.4	178.9	0.0	0.07	0.2	
4425	1:13:45	78.3	68.4	179.0	0.0	0.07	0.2	
4440	1:14:00	78.5	68.5	178.9	19.2	1.36	0.2	
4455	1:14:15	78.6	68.4	178.8	58.9	8.52	3.0	
4470	1:14:30	78.6	68.5	179.0	64.5	8.77	9.0	
4485	1:14:45	78.5	68.3	179.1	66.1	8.83	12.0	
4500	1:15:00	78.6	68.3	179.4	66.6	8.85	12.6	
4515	1:15:15	78.6	68.3	179.1	67.2	8.86	12.7	
4530	1:15:30	78.6	68.4	179.3	68.2	8.88	13.0	
4545	1:15:45	78.8	68.4	179.0	68.2	8.89	13.2	
4560	1:16:00	78.8	68.5	179.3	68.8	8.91	13.3	
4575	1:16:15	78.7	68.5	179.4	68.8	8.92	13.4	
4590	1:16:30	78.6	68.5	179.5	68.2	8.91	13.6	
4605	1:16:45	78.5	68.5	179.2	68.8	8.90	13.6	
4620	1:17:00	78.5	68.6	179.2	68.8	8.90	13.8	
4635	1:17:15	78.6	68.6	179.1	68.8	8.91	13.7	
4650	1:17:30	78.7	68.6	179.4	69.3	8.92	13.8	
4665	1:17:45	78.9	68.5	179.3	69.3	8.93	13.8	
4680	1:18:00	79.0	68.6	179.4	69.3	8.95	13.9	
4695	1:18:15	79.0	68.5	179.3	69.8	8.96	14.0	
4710	1:18:30	78.8	68.5	179.0	69.8	8.93	14.1	
4725	1:18:45	78.9	68.5	179.5	69.3	8.91	14.1	
4740	1:19:00	79.2	68.5	179.3	69.8	8.93	14.1	
4755	1:19:15	79.2	68.5	179.6	68.8	8.94	14.1	
4770	1:19:30	78.9	68.6	179.2	69.3	8.95	14.1	
4785	1:19:45	78.8	68.9	179.3	69.3	8.95	14.0	
4800	1:20:00	78.5	68.9	179.4	68.3	8.91	14.1	
4815	1:20:15	78.7	69.0	179.2	68.2	8.91	14.1	
4830	1:20:30	78.6	69.0	179.1	68.2	8.90	14.1	
4845	1:20:45	78.6	68.9	179.3	67.7	8.90	14.2	
4860	1:21:00	78.4	69.0	179.4	68.2	8.91	14.0	
4875	1:21:15	78.6	68.9	179.6	67.7	8.91	14.0	
4890	1:21:30	79.1	68.8	178.8	68.2	8.91	14.1	
4905	1:21:45	78.9	68.8	179.6	67.7	8.90	14.1	
4920	1:22:00	79.2	68.7	179.3	68.8	8.92	13.9	
4935	1:22:15	78.8	68.8	179.3	67.7	8.91	14.1	
4950	1:22:30	78.7	68.7	179.4	67.7	8.90	14.1	
4965	1:22:45	78.8	68.7	179.4	67.2	8.89	14.0	
4980	1:23:00	78.9	68.8	179.2	66.6	8.88	14.0	
4995	1:23:15	78.6	68.7	179.4	67.2	8.90	14.0	
5010	1:23:30	78.6	68.7	179.4	67.2	8.91	13.9	
5025	1:23:45	78.8	68.9	179.2	67.7	8.94	13.9	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5040	1:24:00	78.8	68.7	179.5	66.1	8.89	14.1	
5055	1:24:15	78.7	68.8	179.3	65.6	8.87	13.9	
5070	1:24:30	78.7	68.8	179.0	66.1	8.88	13.8	
5085	1:24:45	78.7	68.8	179.0	66.6	8.88	13.9	
5100	1:25:00	78.7	68.8	179.3	66.6	8.89	14.0	
5115	1:25:15	78.6	68.6	179.3	66.6	8.90	14.0	
5130	1:25:30	78.5	68.7	179.2	66.2	8.89	13.9	
5145	1:25:45	78.5	68.5	179.5	66.9	8.89	13.8	
5160	1:26:00	78.4	68.5	179.4	67.2	8.89	14.0	
5175	1:26:15	78.5	68.6	179.4	66.6	8.89	14.0	
5190	1:26:30	78.7	68.6	178.9	66.1	8.89	14.0	
5205	1:26:45	78.6	68.6	179.0	66.1	8.88	14.0	
5220	1:27:00	78.7	68.4	179.0	65.6	8.88	13.9	
5235	1:27:15	78.6	68.5	178.8	65.0	8.87	13.8	
5250	1:27:30	78.9	68.5	179.0	65.6	8.87	13.8	
5265	1:27:45	78.7	68.6	179.5	65.0	8.87	13.8	
5280	1:28:00	78.7	68.6	179.4	65.0	8.87	13.6	
5295	1:28:15	79.0	68.6	179.6	66.1	8.90	13.7	
5310	1:28:30	78.9	68.6	179.0	65.6	8.90	13.8	
5325	1:28:45	78.8	68.6	179.2	65.0	8.89	13.8	
5340	1:29:00	79.0	68.6	178.7	65.6	8.88	13.7	
5355	1:29:15	79.5	68.7	179.1	65.6	8.89	13.8	
5370	1:29:30	79.1	68.6	179.4	66.1	8.89	13.8	
5385	1:29:45	79.3	68.6	179.3	66.6	8.90	13.7	
5400	1:30:00	79.6	68.4	179.1	67.7	8.93	13.9	
5415	1:30:15	79.9	68.5	179.2	67.7	8.95	14.0	
5430	1:30:30	79.8	68.7	179.3	68.8	8.97	14.1	
5445	1:30:45	79.5	68.4	179.4	69.3	8.97	14.1	
5460	1:31:00	79.3	68.6	178.9	68.8	8.96	14.3	Start High Fire Equilibrium - #2
5475	1:31:15	79.5	68.7	179.0	67.7	8.92	14.1	
5490	1:31:30	79.6	68.6	179.1	67.7	8.93	14.1	
5505	1:31:45	79.8	68.6	179.6	68.2	8.94	14.1	
5520	1:32:00	79.4	68.5	179.5	68.2	8.95	14.2	
5535	1:32:15	79.2	68.6	179.3	67.2	8.91	14.2	
5550	1:32:30	79.2	68.6	179.2	66.6	8.91	14.1	
5565	1:32:45	79.4	68.6	179.2	67.2	8.91	14.0	
5580	1:33:00	79.0	68.4	178.8	68.2	8.93	14.0	
5595	1:33:15	78.8	68.5	179.7	67.1	8.90	14.2	
5610	1:33:30	78.9	68.6	179.0	66.6	8.89	14.2	
5625	1:33:45	79.0	68.5	178.8	66.1	8.89	14.0	
5640	1:34:00	79.3	68.4	179.0	67.2	8.91	13.9	
5655	1:34:15	79.5	68.6	179.5	66.6	8.90	14.0	
5670	1:34:30	79.7	68.5	179.5	67.2	8.91	14.2	
5685	1:34:45	79.9	68.7	179.5	66.6	8.90	14.2	
5700	1:35:00	80.0	68.6	179.6	68.2	8.93	14.1	
5715	1:35:15	80.2	68.7	179.2	67.2	8.92	14.2	
5730	1:35:30	79.6	68.4	179.3	66.1	8.91	14.1	
5745	1:35:45	79.3	68.4	178.9	66.1	8.93	13.9	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5760	1:36:00	79.3	68.4	179.0	66.6	8.92	13.9	End High Fire Equilibrium - #2
5775	1:36:15	79.4	68.3	178.9	66.6	8.91	14.0	
5790	1:36:30	79.7	68.1	178.6	66.6	8.91	14.1	
5805	1:36:45	79.8	68.3	178.8	66.6	8.91	14.1	
5820	1:37:00	79.9	68.5	179.5	67.7	8.92	14.1	Start Test - High Fire - #2
5835	1:37:15	79.8	69.0	179.4	67.2	8.91	14.2	
5850	1:37:30	80.0	69.0	179.0	66.1	8.90	14.0	
5865	1:37:45	79.8	68.9	178.8	66.1	8.91	13.9	
5880	1:38:00	79.4	68.8	178.7	66.6	8.92	14.0	
5895	1:38:15	79.3	68.9	178.8	66.1	8.92	14.0	
5910	1:38:30	79.3	68.9	178.6	65.6	8.90	13.9	
5925	1:38:45	79.3	68.8	178.7	65.6	8.88	13.8	
5940	1:39:00	79.4	68.7	178.5	65.6	8.89	13.9	
5955	1:39:15	79.3	68.7	178.7	65.6	8.89	13.9	
5970	1:39:30	79.4	68.7	178.7	65.6	8.88	14.0	
5985	1:39:45	79.2	68.6	178.7	65.6	8.90	14.0	
6000	1:40:00	78.9	68.7	178.5	65.0	8.88	14.0	
6015	1:40:15	79.1	68.5	178.6	65.0	8.87	13.9	
6030	1:40:30	79.1	68.6	178.4	65.6	8.88	13.9	
6045	1:40:45	79.1	68.6	178.4	64.5	8.86	14.0	
6060	1:41:00	79.4	68.5	178.2	64.5	8.88	13.7	
6075	1:41:15	79.0	68.6	178.2	64.5	8.87	13.7	
6090	1:41:30	79.5	68.5	178.7	66.1	8.89	13.9	
6105	1:41:45	79.4	68.3	179.3	65.6	8.89	13.9	
6120	1:42:00	79.6	68.4	179.3	65.6	8.91	13.9	
6135	1:42:15	79.6	68.4	178.5	65.6	8.90	13.8	
6150	1:42:30	79.7	68.4	178.8	65.0	8.88	13.8	
6165	1:42:45	79.6	68.2	178.6	65.0	8.90	13.7	
6180	1:43:00	79.7	68.2	178.6	65.0	8.89	13.8	
6195	1:43:15	79.4	68.2	178.5	65.6	8.92	13.8	
6210	1:43:30	79.5	68.3	178.4	65.6	8.93	13.8	
6225	1:43:45	79.8	68.3	178.5	65.6	8.91	13.8	
6240	1:44:00	79.8	68.4	178.5	66.1	8.92	13.8	
6255	1:44:15	79.8	68.3	178.8	66.6	8.96	13.9	
6270	1:44:30	80.2	68.4	178.7	68.2	8.97	14.1	
6285	1:44:45	80.6	68.3	178.7	67.7	8.96	14.1	
6300	1:45:00	80.6	68.3	178.4	68.2	8.96	14.2	
6315	1:45:15	80.9	68.3	178.5	67.7	8.97	14.3	
6330	1:45:30	80.4	68.4	178.6	67.7	8.97	14.3	
6345	1:45:45	80.2	68.3	178.6	67.7	8.97	14.1	
6360	1:46:00	80.1	68.3	178.7	67.2	8.95	14.2	
6375	1:46:15	80.0	68.3	178.3	66.6	8.94	14.1	
6390	1:46:30	80.2	68.3	178.1	66.6	8.95	14.1	
6405	1:46:45	80.6	68.3	178.3	67.7	8.97	14.1	
6420	1:47:00	80.1	68.3	178.5	67.7	8.97	14.3	
6435	1:47:15	80.0	68.1	178.8	66.6	8.95	14.3	
6450	1:47:30	80.3	68.1	178.1	66.6	8.97	14.2	
6465	1:47:45	80.1	68.2	178.4	66.4	8.95	14.1	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
6480	1:48:00	79.8	68.3	178.3	66.1	8.95	14.2	
6495	1:48:15	79.7	68.2	178.1	66.1	8.95	14.1	
6510	1:48:30	79.8	68.0	178.5	65.6	8.93	14.1	
6525	1:48:45	80.0	68.3	178.9	66.1	8.93	14.1	
6540	1:49:00	80.0	68.1	178.4	66.6	8.96	14.0	
6555	1:49:15	79.5	68.1	178.5	65.6	8.91	14.1	
6570	1:49:30	79.5	68.1	178.7	65.6	8.91	14.2	
6585	1:49:45	79.7	68.3	178.3	65.6	8.90	14.1	
6600	1:50:00	79.7	68.3	178.2	66.1	8.93	14.0	
6615	1:50:15	79.9	68.3	178.2	66.1	8.91	14.1	
6630	1:50:30	79.6	68.0	178.7	65.6	8.91	14.0	
6645	1:50:45	79.8	68.4	179.0	66.1	8.92	14.0	
6660	1:51:00	79.7	68.4	178.7	66.6	8.95	14.1	
6675	1:51:15	79.8	68.4	178.5	67.7	8.97	14.1	
6690	1:51:30	79.6	68.4	179.1	67.7	8.97	14.2	
6705	1:51:45	79.6	68.5	178.8	66.1	8.93	14.2	
6720	1:52:00	79.7	68.5	178.8	65.0	8.90	14.0	
6735	1:52:15	80.3	68.5	178.5	65.0	8.91	13.9	
6750	1:52:30	80.0	68.5	178.2	65.6	8.92	14.0	
6765	1:52:45	79.7	68.3	178.6	65.6	8.91	14.1	
6780	1:53:00	79.8	68.5	178.7	65.0	8.92	14.1	
6795	1:53:15	79.5	68.6	178.5	64.5	8.90	14.0	
6810	1:53:30	79.3	68.5	178.5	63.4	8.88	13.8	
6825	1:53:45	79.7	69.1	178.6	62.9	8.87	13.8	
6840	1:54:00	79.7	69.5	178.9	64.0	8.88	13.7	
6855	1:54:15	79.5	69.7	178.5	65.0	8.90	13.8	
6870	1:54:30	79.9	69.6	178.4	65.0	8.90	13.9	
6885	1:54:45	80.0	69.7	178.7	65.6	8.91	13.9	
6900	1:55:00	79.6	69.6	178.7	64.0	8.88	14.1	
6915	1:55:15	79.7	69.6	178.5	64.0	8.88	13.9	
6930	1:55:30	79.9	69.6	178.9	63.4	8.87	13.7	
6945	1:55:45	80.1	69.7	179.0	62.9	8.87	13.7	
6960	1:56:00	80.2	69.7	179.0	62.9	8.87	13.5	
6975	1:56:15	79.6	69.7	179.2	62.9	8.88	13.5	
6990	1:56:30	79.3	69.7	178.9	63.4	8.90	13.5	
7005	1:56:45	79.6	69.7	179.7	64.0	8.91	13.6	
7020	1:57:00	79.8	69.8	179.5	64.5	8.91	13.7	
7035	1:57:15	79.7	69.8	179.3	63.2	8.89	13.7	
7050	1:57:30	79.9	69.8	179.1	64.0	8.89	13.6	
7065	1:57:45	80.2	69.7	179.3	64.0	8.89	13.6	
7080	1:58:00	79.7	69.6	179.7	63.2	8.87	13.8	
7095	1:58:15	79.7	69.6	179.4	62.4	8.85	13.6	
7110	1:58:30	79.6	69.7	179.3	63.4	8.87	13.7	
7125	1:58:45	79.5	69.6	179.5	63.4	8.87	13.8	
7140	1:59:00	79.9	69.6	179.0	62.4	8.85	13.7	
7155	1:59:15	79.8	69.5	178.9	63.4	8.87	13.6	
7170	1:59:30	79.7	69.5	178.9	62.9	8.86	13.6	
7185	1:59:45	79.4	69.5	179.0	62.9	8.87	13.6	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7200	2:00:00	79.6	69.5	178.9	61.8	8.85	13.7	
7215	2:00:15	80.2	69.5	179.2	62.4	8.85	13.5	
7230	2:00:30	80.0	69.5	178.8	62.9	8.87	13.5	
7245	2:00:45	79.5	69.4	178.8	62.9	8.87	13.7	
7260	2:01:00	79.4	69.5	179.6	62.9	8.86	13.7	
7275	2:01:15	79.7	69.5	178.9	62.9	8.88	13.6	
7290	2:01:30	80.3	69.5	179.2	62.4	8.85	13.5	
7305	2:01:45	80.6	69.5	179.5	61.8	8.83	13.5	
7320	2:02:00	80.5	69.5	178.9	61.8	8.83	13.4	
7335	2:02:15	80.4	69.5	179.0	61.8	8.84	13.4	
7350	2:02:30	81.2	69.6	179.1	61.8	8.84	13.4	
7365	2:02:45	80.9	69.7	179.1	61.3	8.82	13.4	
7380	2:03:00	80.7	69.6	179.0	61.8	8.83	13.3	
7395	2:03:15	80.4	69.5	179.6	61.8	8.82	13.4	
7410	2:03:30	80.3	69.6	179.9	61.3	8.82	13.3	
7425	2:03:45	80.3	69.6	179.8	61.8	8.83	13.3	
7440	2:04:00	80.5	69.7	179.0	62.4	8.85	13.4	Start Emissions
7455	2:04:15	80.6	69.7	179.6	62.4	8.84	13.5	
7470	2:04:30	80.5	69.9	179.4	62.9	8.85	13.6	
7485	2:04:45	79.8	69.8	179.4	62.9	8.85	13.6	
7500	2:05:00	79.9	69.7	179.4	63.4	8.87	13.5	1st Minute
7515	2:05:15	79.7	69.7	178.8	62.9	8.88	13.6	
7530	2:05:30	79.8	69.8	178.8	62.9	8.89	13.5	
7545	2:05:45	79.7	69.7	178.8	62.4	8.88	13.5	
7560	2:06:00	80.1	69.6	179.0	62.4	8.87	13.3	2nd Minute
7575	2:06:15	80.0	69.6	178.9	62.4	8.87	13.4	
7590	2:06:30	79.9	69.6	178.6	62.4	8.86	13.5	
7605	2:06:45	79.9	69.7	179.0	61.8	8.85	13.5	
7620	2:07:00	79.9	69.4	179.4	62.9	8.87	13.4	3rd Minute / EOT - High Fire - #2
7635	2:07:15	80.6	69.7	179.4	62.4	8.87	13.5	
7650	2:07:30	80.2	69.6	179.5	62.9	8.86	13.6	CO2 (Avg) % = 8.86
7665	2:07:45	80.6	69.6	179.3	62.4	8.86	13.6	NOx (Avg) ppm = 13.5
7680	2:08:00	80.8	69.7	179.5	62.9	8.87	13.4	CO (Max) ppm = 68.2
7695	2:08:15	80.8	69.8	179.1	62.9	8.87	13.5	Ambient (Avg) F = 79.8
7710	2:08:30	81.0	69.7	178.9	63.4	8.87	13.8	T_In (Avg) F = 68.9
7725	2:08:45	80.7	69.9	179.1	63.4	8.86	13.9	T_Del (Avg) F = 178.8
7740	2:09:00	80.8	69.9	179.4	62.9	8.85	13.6	
7755	2:09:15	80.3	69.8	180.1	62.4	8.85	13.6	
7770	2:09:30	80.3	69.8	179.5	61.8	8.84	13.5	
7785	2:09:45	80.3	69.7	179.2	61.8	8.85	13.5	
7800	2:10:00	80.4	69.8	179.4	62.4	8.86	13.4	
7815	2:10:15	80.2	69.7	179.6	63.4	8.88	13.5	
7830	2:10:30	80.2	69.7	179.3	62.9	8.88	13.6	
7845	2:10:45	80.3	69.7	179.0	62.4	8.86	13.7	
7860	2:11:00	80.0	69.7	179.2	61.3	8.84	13.7	
7875	2:11:15	80.1	69.7	179.0	61.3	8.84	13.6	

Manufacturer: RIELLO
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Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7890	2:11:30	80.4	69.7	178.6	61.8	8.85	13.6	
7905	2:11:45	80.1	69.5	179.0	61.8	8.85	13.7	
7920	2:12:00	79.8	69.5	179.2	61.3	8.84	13.5	
7935	2:12:15	79.9	69.6	178.7	61.3	8.84	13.5	
7950	2:12:30	79.9	69.6	179.0	61.3	8.84	13.4	
7965	2:12:45	79.6	69.4	179.2	61.3	8.84	13.3	
7980	2:13:00	79.9	69.5	179.2	61.8	8.84	13.5	
7995	2:13:15	79.9	69.5	178.9	61.8	8.84	13.4	
8010	2:13:30	80.2	69.5	179.1	61.3	8.84	13.4	
8025	2:13:45	80.5	69.5	178.2	61.8	8.84	13.4	
8040	2:14:00	79.9	69.3	158.7	59.5	8.84	13.5	
8055	2:14:15	79.5	69.2	144.4	35.7	8.91	13.9	
8070	2:14:30	79.7	68.6	142.6	31.5	8.95	15.0	
8085	2:14:45	80.0	68.6	141.6	29.4	8.94	15.5	
8100	2:15:00	80.0	68.7	143.9	28.3	8.93	15.5	
8115	2:15:15	79.9	69.5	153.2	27.8	8.94	15.6	
8130	2:15:30	79.7	71.1	162.9	27.2	8.93	15.5	
8145	2:15:45	80.0	71.1	169.1	27.2	8.95	15.3	
8160	2:16:00	79.8	70.4	172.2	26.7	8.94	15.7	
8175	2:16:15	79.7	70.1	173.9	26.2	8.92	15.5	
8190	2:16:30	79.6	70.1	175.1	25.1	8.90	15.1	
8205	2:16:45	79.6	70.3	175.3	25.1	8.90	14.9	
8220	2:17:00	79.8	70.5	176.0	25.6	8.91	14.9	
8235	2:17:15	79.7	70.8	176.7	25.1	8.90	15.0	
8250	2:17:30	79.9	70.9	176.9	25.1	8.90	15.0	
8265	2:17:45	79.8	70.9	177.3	25.1	8.89	15.0	
8280	2:18:00	79.9	71.1	177.8	25.6	8.90	14.8	
8295	2:18:15	79.9	71.2	177.9	25.6	8.89	14.9	
8310	2:18:30	79.8	71.4	178.2	25.6	8.89	14.8	
8325	2:18:45	79.8	71.4	178.3	26.2	8.92	14.6	
8340	2:19:00	79.9	71.6	178.6	27.2	8.95	15.3	Start Mid Fire Equilibrium - #2
8355	2:19:15	80.1	71.6	178.5	26.7	8.94	15.6	
8370	2:19:30	80.3	71.5	178.8	25.1	8.90	15.4	
8385	2:19:45	80.3	71.5	179.0	25.1	8.89	14.9	
8400	2:20:00	81.8	71.5	178.9	25.1	8.91	14.6	
8415	2:20:15	81.8	71.6	179.2	25.1	8.92	14.7	
8430	2:20:30	82.2	71.7	178.8	25.1	8.92	14.8	
8445	2:20:45	82.2	71.7	179.0	25.1	8.92	14.9	
8460	2:21:00	81.4	71.7	179.1	25.6	8.95	14.8	
8475	2:21:15	81.0	71.8	179.0	25.6	8.94	14.8	
8490	2:21:30	80.9	71.7	178.8	26.2	8.96	15.0	
8505	2:21:45	80.7	71.8	179.1	25.6	8.94	15.2	
8520	2:22:00	81.0	71.7	179.3	26.2	8.94	15.1	
8535	2:22:15	81.0	71.6	179.3	26.2	8.94	15.3	
8550	2:22:30	81.0	71.5	179.1	25.6	8.93	15.3	
8565	2:22:45	81.2	71.7	179.2	25.6	8.96	15.2	
8580	2:23:00	81.3	71.7	179.4	25.6	8.96	15.4	
8595	2:23:15	81.9	71.7	179.1	26.2	8.97	15.5	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
8610	2:23:30	83.0	71.8	179.3	25.6	8.96	15.5	End Mid Fire Equilibrium - #2
8625	2:23:45	82.8	71.8	178.5	25.6	8.96	15.4	
8640	2:24:00	82.3	71.8	178.9	25.6	8.96	15.4	
8655	2:24:15	82.0	71.7	178.8	25.6	8.95	15.5	
8670	2:24:30	81.4	71.8	178.9	25.6	8.95	15.4	
8685	2:24:45	81.4	71.6	178.9	26.2	8.98	15.3	Start Test - Mid Fire - #2
8700	2:25:00	80.9	71.7	179.0	26.2	8.96	15.7	
8715	2:25:15	80.6	71.8	178.8	25.6	8.93	15.7	
8730	2:25:30	81.0	71.7	178.8	26.2	8.95	15.6	
8745	2:25:45	81.5	71.8	179.0	25.1	8.91	15.5	
8760	2:26:00	81.4	71.8	179.1	25.6	8.92	15.0	
8775	2:26:15	81.4	71.8	179.3	25.6	8.95	15.2	
8790	2:26:30	81.5	71.8	179.6	26.2	8.96	15.4	
8805	2:26:45	81.1	71.7	179.8	26.2	8.95	15.5	
8820	2:27:00	81.3	71.8	180.1	26.2	8.95	15.4	
8835	2:27:15	81.0	71.8	180.7	26.7	8.94	15.4	
8850	2:27:30	81.3	71.6	181.2	26.7	8.96	15.4	
8865	2:27:45	81.0	71.5	181.2	26.7	8.94	15.4	
8880	2:28:00	81.2	71.4	180.7	25.6	8.93	15.4	
8895	2:28:15	81.7	71.5	180.7	25.6	8.93	15.4	
8910	2:28:30	82.3	71.4	180.9	25.6	8.93	15.3	
8925	2:28:45	82.4	71.4	181.0	25.1	8.92	15.2	
8940	2:29:00	81.9	71.4	180.8	25.1	8.90	15.0	
8955	2:29:15	82.2	71.4	180.4	25.1	8.89	15.0	
8970	2:29:30	82.4	71.3	180.6	24.6	8.88	14.9	
8985	2:29:45	82.4	71.4	180.5	24.6	8.88	14.9	
9000	2:30:00	81.6	71.4	179.9	24.6	8.88	15.0	
9015	2:30:15	81.4	71.4	180.1	24.6	8.88	15.0	
9030	2:30:30	81.2	71.5	179.9	25.1	8.87	15.1	
9045	2:30:45	80.8	71.5	180.4	25.1	8.89	15.1	
9060	2:31:00	81.0	71.3	180.8	25.6	8.91	15.1	
9075	2:31:15	80.6	71.1	180.8	25.6	8.92	15.1	
9090	2:31:30	80.9	71.1	180.7	25.1	8.90	15.1	
9105	2:31:45	81.1	71.0	180.9	25.1	8.90	15.1	
9120	2:32:00	81.0	71.0	180.7	24.6	8.89	15.0	
9135	2:32:15	80.7	71.0	180.4	24.6	8.88	15.0	
9150	2:32:30	80.4	71.0	180.3	24.0	8.88	14.9	
9165	2:32:45	80.2	71.0	180.2	24.6	8.88	14.9	
9180	2:33:00	80.5	71.0	180.3	24.6	8.89	14.9	
9195	2:33:15	80.3	71.0	180.5	24.6	8.88	14.9	
9210	2:33:30	80.7	71.1	180.5	24.0	8.87	14.9	
9225	2:33:45	80.7	71.0	180.0	24.0	8.87	14.8	
9240	2:34:00	80.4	71.1	179.7	24.0	8.87	14.7	
9255	2:34:15	80.5	71.1	179.8	24.0	8.88	14.7	
9270	2:34:30	80.6	71.0	179.5	24.0	8.88	14.8	
9285	2:34:45	80.5	70.9	179.5	24.0	8.88	14.8	
9300	2:35:00	81.1	71.1	179.7	24.6	8.89	14.9	
9315	2:35:15	80.7	71.0	180.2	25.1	8.90	15.1	

Manufacturer: RIELLO
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Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
9330	2:35:30	80.7	71.0	180.2	24.6	8.89	15.1
9345	2:35:45	80.9	71.0	179.5	24.0	8.87	14.9
9360	2:36:00	80.7	70.9	179.6	24.0	8.86	14.6
9375	2:36:15	80.6	70.9	180.1	24.0	8.88	14.7
9390	2:36:30	80.4	71.0	180.8	24.6	8.89	14.9
9405	2:36:45	80.2	71.0	179.4	24.6	8.87	15.0
9420	2:37:00	80.5	71.1	180.5	24.0	8.87	14.8
9435	2:37:15	80.8	71.1	180.3	23.5	8.84	14.5
9450	2:37:30	80.7	71.0	180.1	24.6	8.88	14.7
9465	2:37:45	80.6	71.1	179.9	24.0	8.87	15.2
9480	2:38:00	80.7	71.0	179.4	24.6	8.88	14.7
9495	2:38:15	80.9	71.0	179.4	24.6	8.89	14.8
9510	2:38:30	80.7	71.0	180.1	24.6	8.90	15.0
9525	2:38:45	80.4	70.9	179.3	25.1	8.91	15.0
9540	2:39:00	79.9	71.0	179.9	25.6	8.91	15.3
9555	2:39:15	80.6	71.0	179.6	25.1	8.91	15.3
9570	2:39:30	80.5	70.9	179.6	25.6	8.90	15.2
9585	2:39:45	80.4	70.9	179.8	25.1	8.89	15.2
9600	2:40:00	80.5	71.0	179.7	24.6	8.87	15.0
9615	2:40:15	80.1	70.9	180.1	24.6	8.88	14.9
9630	2:40:30	80.0	71.0	180.3	24.6	8.87	14.8
9645	2:40:45	80.1	71.0	180.1	24.6	8.87	14.8
9660	2:41:00	80.4	71.0	180.1	24.6	8.88	14.9
9675	2:41:15	80.2	71.0	179.7	24.0	8.87	14.8
9690	2:41:30	80.5	71.0	179.5	24.0	8.87	14.7
9705	2:41:45	80.5	71.0	179.7	24.5	8.88	14.7
9720	2:42:00	80.7	71.1	180.2	24.6	8.88	14.8
9735	2:42:15	80.9	71.0	180.1	24.6	8.87	14.7
9750	2:42:30	81.1	71.0	179.9	24.6	8.87	14.8
9765	2:42:45	81.3	71.1	180.7	25.1	8.89	15.0
9780	2:43:00	81.1	71.1	180.3	25.1	8.90	15.1
9795	2:43:15	81.0	71.0	180.7	25.1	8.89	15.1
9810	2:43:30	80.8	71.0	180.5	25.1	8.89	15.0
9825	2:43:45	80.6	70.9	180.8	24.6	8.88	14.9
9840	2:44:00	80.4	71.0	180.3	25.1	8.88	14.9
9855	2:44:15	80.2	70.9	180.6	25.1	8.88	15.0
9870	2:44:30	80.0	71.0	180.3	25.1	8.89	15.1
9885	2:44:45	80.6	70.9	180.6	24.6	8.86	15.2
9900	2:45:00	80.7	71.0	180.2	24.6	8.86	14.7
9915	2:45:15	80.6	70.9	180.3	24.6	8.86	14.8
9930	2:45:30	80.2	70.9	180.8	25.1	8.88	14.9
9945	2:45:45	80.1	70.8	180.1	24.6	8.88	15.1
9960	2:46:00	80.0	70.9	180.0	24.6	8.87	15.0
9975	2:46:15	80.1	70.8	179.9	24.6	8.87	15.1
9990	2:46:30	80.1	70.9	179.6	25.1	8.88	15.2
10005	2:46:45	80.3	70.8	179.8	25.1	8.88	15.2
10020	2:47:00	80.3	70.9	180.1	25.1	8.87	15.0
10035	2:47:15	80.2	70.7	180.0	25.1	8.89	15.0

Comments

Manufacturer: RIELLO
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Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10050	2:47:30	80.7	70.7	180.2	24.6	8.88	15.0	
10065	2:47:45	80.9	70.6	179.8	24.6	8.84	15.1	
10080	2:48:00	81.2	70.7	180.3	24.6	8.85	14.9	
10095	2:48:15	81.3	70.7	180.4	25.1	8.87	14.9	
10110	2:48:30	81.7	70.7	180.3	24.6	8.85	15.1	
10125	2:48:45	81.4	70.7	180.9	24.6	8.84	15.2	
10140	2:49:00	80.9	70.9	180.1	24.6	8.83	15.1	
10155	2:49:15	80.7	70.7	180.5	25.1	8.87	15.0	
10170	2:49:30	80.8	70.8	180.3	25.1	8.88	15.0	
10185	2:49:45	80.7	70.7	180.1	25.6	8.88	15.1	
10200	2:50:00	80.3	70.7	180.4	25.6	8.91	15.2	
10215	2:50:15	80.0	70.7	180.8	26.2	8.89	15.4	
10230	2:50:30	80.2	70.6	180.4	26.2	8.90	15.5	
10245	2:50:45	80.3	70.6	180.6	26.2	8.90	15.5	
10260	2:51:00	80.4	70.5	180.3	26.2	8.90	15.5	
10275	2:51:15	80.6	70.4	180.2	26.7	8.96	15.5	
10290	2:51:30	80.5	70.4	180.1	26.2	8.92	15.5	
10305	2:51:45	80.0	70.4	180.3	25.6	8.88	15.5	
10320	2:52:00	80.3	70.4	180.6	26.7	8.91	15.3	Start Emissions
10335	2:52:15	80.4	70.3	180.3	27.8	8.94	15.7	
10350	2:52:30	80.2	70.3	180.5	27.8	8.94	16.3	
10365	2:52:45	80.2	70.4	180.2	26.2	8.89	16.5	
10380	2:53:00	80.0	70.4	180.1	25.6	8.88	15.5	1st Minute
10395	2:53:15	80.0	70.4	180.8	26.2	8.89	15.5	
10410	2:53:30	80.1	70.4	180.2	26.2	8.87	15.4	
10425	2:53:45	80.1	70.3	179.9	25.6	8.88	15.4	
10440	2:54:00	80.1	70.3	179.9	25.6	8.87	15.4	2nd Minute
10455	2:54:15	79.9	70.3	180.0	25.6	8.87	15.6	
10470	2:54:30	79.8	70.3	180.1	26.7	8.91	15.9	
10485	2:54:45	80.3	70.3	179.8	26.2	8.88	16.1	
10500	2:55:00	80.0	70.3	180.0	25.6	8.88	15.8	3rd Minute / EOT - Mid Fire - #2
10515	2:55:15	79.8	70.3	179.7	25.6	8.86	15.7	
10530	2:55:30	80.3	70.4	179.9	25.6	8.86	15.5	CO2 (Avg) % = 8.89
10545	2:55:45	80.3	70.4	180.2	25.6	8.87	15.4	NOx (Avg) ppm = 15.7
10560	2:56:00	80.1	70.3	179.6	25.6	8.87	15.6	CO (Max) ppm = 27.8
10575	2:56:15	80.2	70.3	179.8	25.1	8.85	15.6	Ambient (Avg) F = 80.7
10590	2:56:30	80.2	70.3	179.7	25.1	8.85	15.4	T_In (Avg) F = 71.0
10605	2:56:45	80.6	70.4	179.6	25.1	8.85	15.3	T_Del (Avg) F = 180.1
10620	2:57:00	80.3	70.3	179.4	25.6	8.89	15.2	
10635	2:57:15	80.1	70.4	180.1	26.2	8.91	15.3	
10650	2:57:30	80.3	70.2	180.3	25.6	8.87	15.3	
10665	2:57:45	80.1	70.3	180.2	25.1	8.86	15.2	
10680	2:58:00	80.3	70.2	179.8	25.1	8.87	15.2	
10695	2:58:15	80.1	70.2	180.0	25.6	8.87	15.2	
10710	2:58:30	80.0	70.3	180.4	25.6	8.87	15.3	
10725	2:58:45	80.1	70.3	180.1	25.6	8.87	15.4	

Manufacturer: RIELLO
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Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10740	2:59:00	80.1	70.3	179.7	25.6	8.87	15.5	
10755	2:59:15	80.0	70.1	179.7	25.6	8.88	15.5	
10770	2:59:30	80.0	70.3	179.8	25.6	8.88	15.6	
10785	2:59:45	80.0	70.3	180.5	26.2	8.88	15.6	
10800	3:00:00	79.9	70.2	180.2	26.2	8.88	15.6	
10815	3:00:15	79.8	70.2	179.6	25.1	8.86	15.6	
10830	3:00:30	80.2	70.3	180.5	25.1	8.86	15.4	
10845	3:00:45	80.2	70.3	179.9	25.6	8.87	15.2	
10860	3:01:00	80.0	70.3	179.8	25.1	8.87	15.7	
10875	3:01:15	80.3	70.3	179.9	25.6	8.88	15.6	
10890	3:01:30	80.2	70.3	180.6	25.6	8.87	15.5	
10905	3:01:45	80.0	70.3	180.2	25.1	8.86	15.4	
10920	3:02:00	80.4	70.3	180.0	25.1	8.87	15.2	
10935	3:02:15	80.4	70.3	170.1	27.2	8.88	15.3	
10950	3:02:30	80.4	70.3	141.6	4.9	1.06	12.1	
10965	3:02:45	80.3	70.2	101.1	0.0	0.22	8.8	
10980	3:03:00	80.5	68.7	83.5	0.0	0.16	2.8	
10995	3:03:15	80.5	65.8	76.6	0.0	0.12	2.7	
11010	3:03:30	80.6	65.3	73.4	0.0	0.11	2.4	
11025	3:03:45	80.4	65.1	72.0	0.0	0.11	2.3	
11040	3:04:00	80.4	65.0	69.9	0.0	0.11	2.1	
11055	3:04:15	80.3	64.8	68.5	0.0	0.11	2.0	
11070	3:04:30	80.5	64.8	67.5	0.0	0.10	1.8	
11085	3:04:45	80.5	64.7	66.7	0.0	0.11	1.7	
11100	3:05:00	80.1	64.7	66.4	0.0	0.07	1.9	
11115	3:05:15	80.2	64.6	66.2	0.0	0.01	1.0	
11130	3:05:30	80.4	64.5	66.1	0.0	0.01	0.2	
11145	3:05:45	80.1	64.4	65.9	0.0	0.00	0.1	
11160	3:06:00	80.2	64.3	65.8	0.0	0.00	0.1	
11175	3:06:15	80.6	64.3	65.6	0.0	0.00	0.1	
11190	3:06:30	80.6	64.2	65.6	0.0	0.00	0.1	
11205	3:06:45	80.4	64.1	65.5	0.0	0.00	0.1	
11220	3:07:00	80.2	64.0	65.4	0.0	0.00	0.1	
11235	3:07:15	80.2	64.0	65.3	0.0	0.00	0.1	
11250	3:07:30	80.1	63.9	65.2	0.0	0.00	0.1	
11265	3:07:45	80.3	63.8	65.2	0.0	0.00	0.1	
11280	3:08:00	80.4	63.7	65.0	0.0	0.00	0.1	
11295	3:08:15	80.6	63.7	65.0	0.0	0.00	0.1	
11310	3:08:30	80.6	63.7	64.9	0.0	0.00	0.1	
11325	3:08:45	80.2	63.7	64.8	0.0	0.00	0.1	
11340	3:09:00	79.7	63.7	64.8	0.0	0.00	0.1	
11355	3:09:15	80.3	63.7	64.8	0.0	0.00	0.1	
11370	3:09:30	80.2	63.6	64.7	0.0	0.00	0.1	
11385	3:09:45	80.4	63.7	64.7	0.0	0.00	0.1	
11400	3:10:00	80.8	63.7	64.7	0.0	0.00	0.1	
11415	3:10:15	81.0	63.6	64.6	0.0	0.00	0.1	
11430	3:10:30	81.0	63.6	64.6	0.0	0.00	0.0	
11445	3:10:45	80.9	63.5	64.6	0.0	0.00	0.0	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
11460	3:11:00	80.7	63.6	64.6	0.0	0.00	0.0	
11475	3:11:15	80.4	63.6	64.6	0.0	0.00	0.0	
11490	3:11:30	80.1	63.5	64.5	0.0	0.00	0.0	
11505	3:11:45	80.3	63.5	64.5	0.0	0.00	0.0	
11520	3:12:00	80.7	63.5	64.4	0.0	0.00	0.0	
11535	3:12:15	81.7	63.5	64.5	0.0	0.00	0.0	
11550	3:12:30	81.4	63.5	64.5	0.0	0.00	0.0	
11565	3:12:45	81.4	63.5	64.4	0.0	0.00	0.0	
11580	3:13:00	80.9	63.5	64.4	0.0	0.00	0.0	
11595	3:13:15	80.5	63.4	64.3	0.0	0.00	0.0	
11610	3:13:30	80.3	63.4	64.4	0.0	0.00	0.0	
11625	3:13:45	80.2	63.4	64.4	0.0	0.00	0.0	
11640	3:14:00	80.1	63.5	64.4	0.0	0.00	0.0	
11655	3:14:15	80.3	63.6	64.4	0.0	0.00	0.0	
11670	3:14:30	80.4	63.6	64.4	0.0	0.00	0.0	
11685	3:14:45	80.5	63.5	64.7	0.0	0.00	0.0	
11700	3:15:00	80.6	63.5	79.0	0.0	0.00	0.0	
11715	3:15:15	80.7	64.6	103.1	0.0	0.00	0.0	
11730	3:15:30	80.8	64.9	113.3	0.0	0.00	0.0	
11745	3:15:45	81.0	65.2	117.5	0.0	0.00	0.0	
11760	3:16:00	80.8	65.2	118.4	0.0	0.00	0.0	
11775	3:16:15	80.7	64.9	119.1	0.0	0.00	0.0	
11790	3:16:30	80.5	64.7	119.7	0.0	0.00	0.0	
11805	3:16:45	80.4	64.7	119.8	0.0	0.00	0.0	
11820	3:17:00	80.3	64.7	119.7	0.0	0.00	0.0	
11835	3:17:15	80.3	64.8	119.4	0.0	0.00	0.0	
11850	3:17:30	80.4	64.8	119.6	0.0	0.00	0.0	
11865	3:17:45	80.1	64.8	119.5	0.0	0.00	0.0	
11880	3:18:00	80.3	64.9	119.7	0.0	0.00	0.0	
11895	3:18:15	80.1	64.9	119.6	0.0	0.00	0.0	
11910	3:18:30	80.5	64.9	119.7	0.0	0.00	0.0	
11925	3:18:45	80.6	65.0	120.1	0.0	0.00	0.0	
11940	3:19:00	80.5	65.0	119.9	0.0	0.00	0.0	
11955	3:19:15	80.3	65.0	119.7	0.0	0.00	0.0	
11970	3:19:30	80.1	65.0	126.9	0.0	0.00	0.0	
11985	3:19:45	79.9	65.0	154.3	0.0	0.00	0.0	
12000	3:20:00	80.0	65.1	166.6	0.0	0.00	0.0	
12015	3:20:15	80.4	65.3	170.9	0.0	0.00	0.0	
12030	3:20:30	80.4	65.3	172.8	0.0	0.00	0.0	
12045	3:20:45	80.5	65.5	174.0	0.0	0.00	0.0	
12060	3:21:00	80.6	65.6	174.3	0.0	0.00	0.0	
12075	3:21:15	80.1	65.9	174.9	0.0	0.00	0.0	
12090	3:21:30	80.3	66.1	174.8	0.0	0.00	0.0	
12105	3:21:45	80.2	66.3	175.0	0.0	0.00	0.0	
12120	3:22:00	80.2	66.4	175.7	0.0	0.00	0.0	
12135	3:22:15	80.2	66.5	175.7	0.0	0.00	0.0	
12150	3:22:30	80.5	66.6	176.0	0.0	0.00	0.0	
12165	3:22:45	80.2	66.6	176.4	0.0	0.00	0.0	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12180	3:23:00	80.2	66.6	177.2	1.7	0.12	0.0	
12195	3:23:15	80.2	66.8	177.3	56.2	8.26	1.7	
12210	3:23:30	80.2	66.7	177.3	63.4	8.73	8.2	
12225	3:23:45	80.5	66.6	177.3	65.6	8.80	12.9	
12240	3:24:00	80.0	66.7	177.1	66.6	8.83	13.0	
12255	3:24:15	80.2	66.7	177.3	67.2	8.85	13.2	
12270	3:24:30	80.0	66.7	177.5	66.1	8.84	13.3	
12285	3:24:45	80.1	66.7	177.2	66.1	8.85	13.3	
12300	3:25:00	80.2	66.7	177.4	66.1	8.86	13.6	
12315	3:25:15	80.7	66.7	177.5	66.6	8.88	13.6	
12330	3:25:30	81.5	66.8	177.3	67.2	8.88	13.7	
12345	3:25:45	82.3	66.9	177.4	66.6	8.88	13.8	
12360	3:26:00	82.4	67.0	177.3	66.1	8.87	13.8	
12375	3:26:15	83.0	67.0	177.3	66.1	8.88	13.9	
12390	3:26:30	82.9	66.8	177.2	66.1	8.88	13.9	
12405	3:26:45	82.5	66.9	177.3	67.1	8.89	13.9	
12420	3:27:00	82.4	67.2	177.4	67.7	8.88	14.3	
12435	3:27:15	82.3	67.6	177.9	68.7	8.89	14.4	
12450	3:27:30	81.8	67.6	177.8	69.3	8.91	14.6	
12465	3:27:45	81.2	67.8	177.5	69.3	8.92	14.8	
12480	3:28:00	81.1	67.7	177.4	69.3	8.93	14.7	
12495	3:28:15	81.2	67.8	177.1	69.3	8.93	14.6	
12510	3:28:30	80.9	67.7	177.9	69.8	8.92	14.7	
12525	3:28:45	81.1	67.7	177.7	69.8	8.91	14.8	
12540	3:29:00	81.0	67.8	177.6	69.3	8.91	14.9	
12555	3:29:15	81.3	67.7	177.9	68.7	8.89	14.8	
12570	3:29:30	81.2	67.9	177.3	69.3	8.91	14.7	
12585	3:29:45	80.7	67.7	177.7	68.7	8.90	14.9	
12600	3:30:00	80.5	67.9	177.8	68.7	8.90	14.7	
12615	3:30:15	80.8	67.8	177.6	67.1	8.87	14.7	
12630	3:30:30	81.0	67.9	177.1	68.2	8.89	14.8	
12645	3:30:45	80.9	67.8	177.6	68.2	8.89	14.8	
12660	3:31:00	81.1	67.9	177.3	67.7	8.87	14.8	
12675	3:31:15	80.8	67.9	177.1	67.1	8.84	14.7	
12690	3:31:30	80.6	67.8	176.8	67.1	8.86	14.7	
12705	3:31:45	80.5	67.9	177.5	66.6	8.86	14.8	
12720	3:32:00	80.5	67.9	177.1	67.7	8.87	14.8	
12735	3:32:15	80.6	67.9	177.2	67.1	8.87	14.8	
12750	3:32:30	80.7	67.9	177.1	67.1	8.87	14.8	
12765	3:32:45	80.9	67.8	177.1	66.6	8.85	14.8	
12780	3:33:00	80.9	67.8	177.2	66.6	8.85	14.6	
12795	3:33:15	81.5	68.0	177.2	67.7	8.86	14.7	
12810	3:33:30	81.4	67.8	177.5	67.7	8.85	14.8	
12825	3:33:45	81.0	67.8	177.5	67.7	8.84	14.8	
12840	3:34:00	81.1	67.8	177.0	67.1	8.84	14.9	
12855	3:34:15	81.5	67.7	177.1	67.1	8.84	14.8	
12870	3:34:30	81.4	67.8	177.1	66.6	8.84	14.8	
12885	3:34:45	80.9	67.6	177.1	67.1	8.85	14.8	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12900	3:35:00	80.5	67.8	177.1	66.6	8.85	15.0	
12915	3:35:15	80.4	67.9	177.1	67.7	8.86	14.9	
12930	3:35:30	80.4	68.2	177.0	67.1	8.86	14.8	
12945	3:35:45	80.5	68.2	177.6	67.1	8.87	14.9	
12960	3:36:00	80.4	68.4	177.6	66.1	8.84	14.9	
12975	3:36:15	80.7	68.5	177.3	68.2	8.89	14.8	
12990	3:36:30	80.9	68.5	177.0	69.8	8.90	14.9	
13005	3:36:45	80.4	68.4	177.1	68.7	8.88	15.1	
13020	3:37:00	80.5	68.4	177.1	67.7	8.87	15.0	
13035	3:37:15	80.2	68.3	177.1	68.2	8.88	15.0	
13050	3:37:30	80.2	68.2	177.0	67.5	8.87	15.0	
13065	3:37:45	80.5	68.2	176.9	66.6	8.85	15.0	
13080	3:38:00	80.4	68.3	176.9	67.1	8.85	14.9	
13095	3:38:15	80.3	68.4	177.3	67.1	8.85	14.9	
13110	3:38:30	80.3	68.4	176.7	66.6	8.85	14.9	
13125	3:38:45	79.9	68.3	177.2	66.6	8.85	14.9	
13140	3:39:00	80.1	68.4	177.2	67.1	8.85	14.8	
13155	3:39:15	80.4	68.4	176.8	66.1	8.84	14.8	
13170	3:39:30	80.2	68.5	176.9	67.1	8.85	14.8	
13185	3:39:45	80.0	68.5	176.7	66.1	8.85	14.8	
13200	3:40:00	80.2	68.6	176.4	65.5	8.83	14.7	
13215	3:40:15	80.1	68.5	176.7	66.1	8.84	14.6	
13230	3:40:30	80.0	68.3	176.8	66.1	8.85	14.6	
13245	3:40:45	80.2	68.3	177.1	65.5	8.84	14.7	
13260	3:41:00	80.3	68.4	176.6	65.0	8.83	14.6	
13275	3:41:15	80.4	68.5	176.6	65.0	8.84	14.5	
13290	3:41:30	80.4	68.4	177.1	65.0	8.83	14.4	
13305	3:41:45	80.1	68.3	176.7	66.1	8.84	14.5	
13320	3:42:00	80.1	68.2	176.7	65.5	8.84	14.8	
13335	3:42:15	80.2	68.5	177.2	65.0	8.82	14.5	
13350	3:42:30	80.2	68.7	177.2	66.1	8.87	14.5	
13365	3:42:45	80.6	68.7	177.3	66.6	8.85	14.7	
13380	3:43:00	80.5	68.8	177.2	66.1	8.84	14.6	
13395	3:43:15	80.8	68.8	177.3	65.0	8.83	14.6	
13410	3:43:30	80.5	68.7	177.4	65.5	8.84	14.6	
13425	3:43:45	80.4	68.8	177.1	65.5	8.85	14.6	
13440	3:44:00	80.5	68.8	177.4	66.1	8.84	14.5	
13455	3:44:15	80.2	68.7	177.6	66.1	8.84	14.6	
13470	3:44:30	80.0	68.8	177.9	67.1	8.85	14.8	
13485	3:44:45	79.9	68.8	177.9	67.1	8.85	14.8	
13500	3:45:00	79.8	68.8	178.4	66.6	8.85	14.8	
13515	3:45:15	80.2	68.9	178.7	67.1	8.87	14.8	
13530	3:45:30	80.3	69.0	178.5	68.2	8.89	15.0	
13545	3:45:45	80.3	68.9	178.3	67.7	8.89	15.1	
13560	3:46:00	80.2	68.9	178.2	67.1	8.88	15.0	
13575	3:46:15	80.4	69.0	178.5	67.1	8.87	14.9	
13590	3:46:30	80.1	68.8	178.6	67.1	8.88	14.9	
13605	3:46:45	80.2	69.0	178.5	66.1	8.86	15.0	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13620	3:47:00	80.4	69.0	178.5	66.6	8.85	14.9	
13635	3:47:15	80.4	69.0	178.1	66.6	8.84	15.0	
13650	3:47:30	80.3	68.9	178.0	66.1	8.83	14.9	
13665	3:47:45	80.2	68.8	178.1	65.0	8.83	14.7	
13680	3:48:00	80.4	69.0	178.1	64.5	8.81	14.7	
13695	3:48:15	80.5	69.0	177.9	65.0	8.82	14.6	
13710	3:48:30	81.3	68.9	178.4	66.1	8.83	14.7	
13725	3:48:45	81.3	68.9	178.2	67.1	8.84	14.9	
13740	3:49:00	81.6	68.9	178.2	68.2	8.86	14.9	
13755	3:49:15	83.2	68.6	178.5	67.7	8.87	15.1	
13770	3:49:30	82.6	68.8	178.3	68.2	8.87	15.3	
13785	3:49:45	82.6	68.7	178.5	68.2	8.85	15.3	
13800	3:50:00	82.6	68.7	178.3	68.2	8.86	15.3	
13815	3:50:15	82.0	68.7	178.3	69.3	8.88	15.3	
13830	3:50:30	81.4	68.7	178.0	69.3	8.89	15.5	
13845	3:50:45	80.8	68.6	178.1	68.7	8.88	15.7	
13860	3:51:00	80.6	68.8	178.0	68.7	8.88	15.2	
13875	3:51:15	80.8	68.8	178.0	69.3	8.89	15.4	
13890	3:51:30	80.5	68.5	178.2	68.7	8.87	15.4	
13905	3:51:45	80.8	68.8	178.2	68.7	8.88	15.3	
13920	3:52:00	80.8	68.7	178.3	68.7	8.87	15.5	
13935	3:52:15	80.7	68.8	177.9	68.2	8.86	15.5	
13950	3:52:30	80.8	68.8	178.4	68.2	8.86	15.4	
13965	3:52:45	80.9	68.8	178.4	68.7	8.88	15.3	
13980	3:53:00	81.2	68.9	178.4	67.7	8.86	15.5	
13995	3:53:15	82.1	68.9	178.5	67.7	8.85	15.4	
14010	3:53:30	82.6	68.8	178.5	67.7	8.84	15.3	
14025	3:53:45	82.3	68.9	178.4	67.1	8.83	15.3	
14040	3:54:00	82.0	68.9	178.3	67.7	8.83	15.2	
14055	3:54:15	81.7	68.7	178.4	67.7	8.84	15.3	
14070	3:54:30	81.6	68.8	178.5	67.1	8.83	15.2	
14085	3:54:45	81.5	68.8	178.1	66.6	8.83	15.2	
14100	3:55:00	82.0	68.8	178.5	67.1	8.84	15.1	
14115	3:55:15	81.9	68.8	178.2	67.7	8.85	15.2	
14130	3:55:30	82.3	68.8	178.4	67.7	8.84	15.3	
14145	3:55:45	82.8	68.9	178.5	67.1	8.82	15.3	
14160	3:56:00	82.1	68.9	178.7	66.6	8.81	15.2	
14175	3:56:15	82.3	68.7	178.5	66.6	8.81	15.2	
14190	3:56:30	82.3	68.8	178.3	66.1	8.81	15.1	
14205	3:56:45	82.8	68.8	178.2	66.1	8.82	15.1	
14220	3:57:00	82.7	68.8	178.3	66.6	8.82	15.2	
14235	3:57:15	82.3	68.9	177.9	66.6	8.82	15.2	
14250	3:57:30	82.1	68.8	178.3	66.6	8.81	15.1	
14265	3:57:45	81.8	68.8	178.3	66.6	8.82	15.1	
14280	3:58:00	81.9	68.7	178.3	66.6	8.82	15.1	
14295	3:58:15	81.6	68.8	178.6	67.1	8.83	15.2	
14310	3:58:30	81.6	68.8	178.2	67.1	8.83	15.3	
14325	3:58:45	81.4	68.9	178.3	67.1	8.83	15.3	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14340	3:59:00	81.5	68.9	178.1	67.1	8.84	15.3	
14355	3:59:15	81.5	68.8	178.6	68.2	8.86	15.3	
14370	3:59:30	81.8	68.9	178.4	69.3	8.87	15.4	
14385	3:59:45	82.5	68.8	178.5	69.8	8.87	15.5	
14400	4:00:00	83.3	68.9	178.1	69.3	8.87	15.7	
14415	4:00:15	83.4	68.7	178.9	70.3	8.88	15.6	
14430	4:00:30	84.7	68.8	178.7	70.9	8.89	15.7	
14445	4:00:45	84.6	68.7	178.8	69.8	8.87	16.0	
14460	4:01:00	84.2	68.8	178.7	70.3	8.86	15.6	
14475	4:01:15	84.3	68.8	178.9	70.9	8.87	15.7	
14490	4:01:30	84.6	68.8	179.1	71.4	8.89	15.8	
14505	4:01:45	84.1	68.6	179.3	71.4	8.89	15.8	
14520	4:02:00	84.1	68.6	179.1	71.9	8.88	16.1	
14535	4:02:15	83.7	68.5	179.3	71.9	8.87	16.0	
14550	4:02:30	82.2	68.5	178.7	71.9	8.89	16.1	
14565	4:02:45	82.3	68.3	179.0	70.3	8.87	16.2	
14580	4:03:00	82.4	68.5	179.2	70.3	8.88	15.8	
14595	4:03:15	82.4	68.6	178.8	70.9	8.89	15.9	
14610	4:03:30	81.8	68.5	178.7	71.4	8.88	15.9	
14625	4:03:45	81.4	68.6	178.3	69.3	8.87	15.9	
14640	4:04:00	81.2	68.7	178.3	69.3	8.86	15.4	
14655	4:04:15	81.4	68.4	178.7	69.3	8.87	15.6	
14670	4:04:30	81.6	68.5	178.8	68.7	8.86	15.6	
14685	4:04:45	81.5	68.5	178.6	69.3	8.87	15.5	
14700	4:05:00	81.6	68.6	178.6	68.7	8.87	15.7	
14715	4:05:15	81.3	68.6	178.5	67.7	8.84	15.6	
14730	4:05:30	81.7	68.4	178.3	68.7	8.86	15.5	
14745	4:05:45	81.7	68.5	178.6	67.9	8.85	15.6	
14760	4:06:00	81.7	68.5	178.8	67.1	8.84	15.4	
14775	4:06:15	81.5	68.6	178.6	68.2	8.84	15.4	
14790	4:06:30	82.1	68.6	178.6	67.7	8.84	15.4	
14805	4:06:45	82.6	68.6	178.3	67.7	8.83	15.4	
14820	4:07:00	82.8	68.7	178.6	66.8	8.82	15.4	
14835	4:07:15	82.8	68.7	178.8	66.6	8.82	15.2	
14850	4:07:30	83.0	68.8	178.7	67.7	8.83	15.2	
14865	4:07:45	82.5	69.4	178.7	67.7	8.83	15.4	
14880	4:08:00	81.7	69.7	178.5	67.1	8.82	15.4	
14895	4:08:15	81.8	69.6	178.3	66.1	8.82	15.2	
14910	4:08:30	81.5	69.5	178.4	66.1	8.82	15.0	
14925	4:08:45	81.4	69.6	178.1	67.1	8.83	15.0	
14940	4:09:00	81.3	69.6	179.2	67.7	8.84	15.3	
14955	4:09:15	81.9	69.7	178.8	67.1	8.83	15.3	
14970	4:09:30	81.9	69.8	178.7	66.6	8.81	15.1	
14985	4:09:45	81.8	69.6	179.3	66.1	8.82	15.0	
15000	4:10:00	81.4	69.7	178.8	67.1	8.84	14.9	Start High Fire Equilibrium - #3
15015	4:10:15	81.4	69.5	179.4	67.1	8.83	15.0	
15030	4:10:30	81.8	69.8	179.1	66.6	8.83	15.1	
15045	4:10:45	82.4	69.8	179.0	66.1	8.82	15.2	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15060	4:11:00	82.7	69.8	179.0	66.1	8.82	15.0	
15075	4:11:15	83.1	69.7	179.5	66.6	8.82	15.0	
15090	4:11:30	83.6	69.8	179.5	66.6	8.83	15.1	
15105	4:11:45	84.0	69.7	179.3	66.6	8.83	15.2	
15120	4:12:00	83.3	69.8	179.3	66.1	8.83	15.3	
15135	4:12:15	83.9	69.7	179.2	67.1	8.84	15.2	
15150	4:12:30	84.1	69.6	179.3	67.1	8.84	15.2	
15165	4:12:45	84.2	69.6	179.5	67.7	8.83	15.3	
15180	4:13:00	83.4	69.6	179.2	67.7	8.83	15.2	
15195	4:13:15	82.8	69.6	179.4	67.7	8.82	15.3	
15210	4:13:30	82.7	69.5	179.1	67.7	8.83	15.3	
15225	4:13:45	82.6	69.7	178.9	67.1	8.82	15.4	
15240	4:14:00	82.5	69.6	179.1	67.1	8.83	15.2	
15255	4:14:15	82.5	69.4	179.4	68.2	8.85	15.3	
15270	4:14:30	83.5	69.7	179.6	68.7	8.86	15.4	
15285	4:14:45	83.6	69.7	179.3	68.7	8.86	15.5	
15300	4:15:00	84.0	69.5	179.4	68.2	8.87	15.5	End High Fire Equilibrium - #3
15315	4:15:15	82.9	69.7	179.2	69.3	8.87	15.4	
15330	4:15:30	83.3	69.6	179.4	70.3	8.89	15.6	
15345	4:15:45	83.5	69.5	179.2	69.3	8.88	15.7	
15360	4:16:00	82.4	69.7	179.3	69.8	8.89	15.5	Start Test - High Fire - #3
15375	4:16:15	83.0	69.7	179.3	70.3	8.90	15.6	
15390	4:16:30	82.6	69.7	179.4	70.3	8.89	15.7	
15405	4:16:45	82.2	69.7	179.3	70.3	8.90	15.7	
15420	4:17:00	81.7	69.6	179.3	69.8	8.89	15.8	
15435	4:17:15	81.4	69.7	179.3	69.8	8.88	15.7	
15450	4:17:30	81.8	69.7	179.2	69.3	8.87	15.7	
15465	4:17:45	82.2	69.7	179.4	68.2	8.86	15.7	
15480	4:18:00	81.7	69.8	179.1	68.2	8.86	15.3	
15495	4:18:15	81.4	69.7	179.1	67.7	8.86	15.4	
15510	4:18:30	81.7	69.7	179.0	67.7	8.84	15.3	
15525	4:18:45	82.4	69.8	179.3	67.1	8.84	15.1	
15540	4:19:00	82.1	69.1	179.2	66.6	8.84	15.3	
15555	4:19:15	82.0	69.1	179.5	67.1	8.84	15.2	
15570	4:19:30	82.9	68.9	179.9	67.7	8.85	15.2	
15585	4:19:45	83.3	68.8	180.0	66.6	8.83	15.3	
15600	4:20:00	82.7	68.9	179.7	66.6	8.82	15.1	
15615	4:20:15	82.5	68.7	179.3	67.1	8.83	15.3	
15630	4:20:30	82.3	68.7	179.2	67.7	8.84	15.4	
15645	4:20:45	81.9	68.7	179.4	67.7	8.84	15.4	
15660	4:21:00	82.7	68.6	178.9	67.7	8.84	15.3	
15675	4:21:15	83.1	68.7	179.3	66.6	8.83	15.2	
15690	4:21:30	82.7	68.7	179.2	67.1	8.82	15.2	
15705	4:21:45	82.0	68.6	179.0	67.1	8.81	15.3	
15720	4:22:00	81.8	68.7	179.4	66.6	8.80	15.3	
15735	4:22:15	82.5	68.6	179.1	66.1	8.79	15.3	
15750	4:22:30	81.9	68.6	179.0	66.6	8.80	15.2	
15765	4:22:45	82.1	68.6	179.3	66.6	8.80	15.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15780	4:23:00	82.8	68.6	179.2	66.1	8.79	15.1	
15795	4:23:15	82.9	68.9	179.4	66.6	8.80	15.1	
15810	4:23:30	82.1	69.1	179.2	66.3	8.79	15.1	
15825	4:23:45	81.4	69.0	179.2	67.1	8.80	15.1	
15840	4:24:00	82.0	69.2	179.3	67.1	8.80	15.4	
15855	4:24:15	82.1	69.1	179.6	67.1	8.80	15.3	
15870	4:24:30	82.3	69.1	179.5	67.1	8.80	15.3	
15885	4:24:45	83.3	69.1	179.4	67.7	8.82	15.3	
15900	4:25:00	82.4	69.1	179.4	68.7	8.84	15.4	
15915	4:25:15	82.3	69.2	180.0	69.1	8.84	15.5	
15930	4:25:30	81.8	69.1	179.8	68.7	8.83	15.6	
15945	4:25:45	81.7	69.1	179.1	68.2	8.82	15.5	
15960	4:26:00	81.7	69.0	179.2	67.7	8.83	15.4	
15975	4:26:15	82.0	69.1	179.6	67.7	8.82	15.3	
15990	4:26:30	82.1	69.1	179.2	69.3	8.85	15.4	
16005	4:26:45	82.4	69.0	179.4	69.3	8.86	15.7	
16020	4:27:00	82.7	69.2	179.9	68.7	8.84	15.6	
16035	4:27:15	82.6	69.2	179.9	68.7	8.84	15.5	
16050	4:27:30	82.9	69.4	179.8	69.3	8.85	15.6	
16065	4:27:45	82.1	69.0	179.6	69.8	8.86	15.8	
16080	4:28:00	82.4	69.1	179.5	68.2	8.85	15.7	
16095	4:28:15	83.3	69.3	179.8	68.2	8.84	15.5	
16110	4:28:30	83.7	69.2	179.7	68.2	8.83	15.3	
16125	4:28:45	83.6	69.1	179.5	68.7	8.82	15.4	
16140	4:29:00	83.7	69.1	179.2	67.7	8.80	15.6	
16155	4:29:15	83.5	69.0	179.0	67.1	8.80	15.5	
16170	4:29:30	83.4	68.9	179.4	67.1	8.80	15.4	
16185	4:29:45	83.4	69.1	179.1	66.6	8.80	15.4	
16200	4:30:00	82.9	69.0	179.3	66.6	8.80	15.1	
16215	4:30:15	82.8	69.0	179.4	66.6	8.80	15.2	
16230	4:30:30	82.4	68.9	179.7	66.6	8.79	15.2	
16245	4:30:45	82.3	69.0	179.6	67.7	8.83	15.2	
16260	4:31:00	82.0	69.1	179.4	67.7	8.82	15.4	
16275	4:31:15	82.0	68.9	179.2	66.6	8.80	15.4	
16290	4:31:30	81.8	68.9	179.0	66.1	8.80	15.3	
16305	4:31:45	81.6	69.0	179.0	65.5	8.80	15.2	
16320	4:32:00	82.3	69.1	178.9	65.0	8.78	15.1	
16335	4:32:15	82.4	69.1	178.9	65.0	8.78	15.1	
16350	4:32:30	82.4	69.1	179.1	65.0	8.77	15.1	
16365	4:32:45	82.3	69.2	179.1	65.0	8.78	15.0	
16380	4:33:00	82.2	69.3	179.2	65.5	8.79	14.9	
16395	4:33:15	82.1	69.1	179.2	65.8	8.80	15.0	
16410	4:33:30	81.7	69.2	179.5	65.0	8.79	15.1	
16425	4:33:45	82.0	69.2	179.3	63.9	8.78	15.0	
16440	4:34:00	82.0	69.2	179.1	65.5	8.79	14.7	
16455	4:34:15	82.0	69.1	179.0	65.5	8.81	14.9	
16470	4:34:30	82.3	69.1	179.1	66.1	8.80	15.1	
16485	4:34:45	82.1	69.1	179.2	66.6	8.81	15.0	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
16500	4:35:00	82.5	69.2	179.1	67.1	8.81	15.4	
16515	4:35:15	82.6	69.0	179.7	66.6	8.81	15.6	
16530	4:35:30	82.3	69.1	179.8	66.6	8.82	15.5	
16545	4:35:45	82.1	69.0	179.2	66.1	8.81	15.3	
16560	4:36:00	81.8	69.0	178.9	65.5	8.81	15.1	
16575	4:36:15	83.6	69.1	179.3	66.1	8.80	15.1	
16590	4:36:30	83.7	69.0	179.3	66.1	8.81	15.1	
16605	4:36:45	83.6	69.0	179.3	66.6	8.80	15.2	
16620	4:37:00	82.7	69.1	179.0	67.1	8.82	15.3	
16635	4:37:15	82.5	68.9	179.1	66.1	8.80	15.3	
16650	4:37:30	83.4	69.0	179.5	66.1	8.80	15.1	
16665	4:37:45	82.8	69.0	179.4	67.1	8.80	15.0	
16680	4:38:00	82.5	69.0	179.3	67.1	8.81	15.3	
16695	4:38:15	82.4	68.9	179.4	67.7	8.80	15.2	
16710	4:38:30	83.1	69.1	179.3	66.1	8.80	15.1	
16725	4:38:45	81.8	69.0	179.3	65.5	8.79	15.1	
16740	4:39:00	82.3	69.0	179.2	65.0	8.77	15.1	
16755	4:39:15	82.7	69.1	179.2	66.1	8.79	15.0	
16770	4:39:30	82.3	69.0	179.0	65.0	8.78	14.8	
16785	4:39:45	82.5	69.1	179.0	64.5	8.77	14.7	
16800	4:40:00	82.4	69.1	179.7	64.5	8.77	14.7	
16815	4:40:15	81.4	69.1	179.2	63.9	8.75	14.7	
16830	4:40:30	82.4	69.0	179.3	64.5	8.76	14.8	
16845	4:40:45	82.7	68.9	179.5	65.0	8.77	14.8	
16860	4:41:00	82.0	69.1	179.3	64.5	8.77	15.0	
16875	4:41:15	82.1	69.0	179.1	63.9	8.75	14.8	
16890	4:41:30	82.6	69.0	179.0	64.5	8.76	14.7	
16905	4:41:45	82.4	69.0	179.3	65.0	8.78	14.7	
16920	4:42:00	82.5	69.1	179.3	64.5	8.77	14.9	
16935	4:42:15	82.9	69.0	179.4	65.0	8.79	14.8	
16950	4:42:30	82.9	69.1	179.2	65.5	8.80	14.8	
16965	4:42:45	82.5	69.1	179.5	65.5	8.79	14.8	
16980	4:43:00	82.6	69.1	179.4	65.0	8.78	14.8	Start Emissions
16995	4:43:15	82.7	69.1	179.4	66.1	8.80	14.8	
17010	4:43:30	82.8	69.1	179.4	66.1	8.80	14.9	
17025	4:43:45	82.6	68.8	179.4	66.1	8.79	15.0	
17040	4:44:00	82.4	69.1	180.1	65.5	8.78	15.0	1st Minute
17055	4:44:15	82.3	69.1	179.6	66.1	8.80	15.0	
17070	4:44:30	81.8	69.1	179.0	66.1	8.80	15.1	
17085	4:44:45	82.0	69.0	179.1	66.1	8.79	15.2	
17100	4:45:00	81.6	69.0	179.5	65.7	8.79	15.1	2nd Minute
17115	4:45:15	81.7	68.9	179.5	66.1	8.80	15.0	
17130	4:45:30	81.4	69.0	179.4	66.6	8.80	15.1	
17145	4:45:45	81.1	68.9	179.3	67.1	8.81	15.1	
17160	4:46:00	80.9	68.9	179.3	67.1	8.81	15.1	3rd Minute / EOT - High Fire - #3
17175	4:46:15	81.4	68.9	179.6	67.7	8.81	15.1	
17190	4:46:30	81.3	69.0	179.6	68.7	8.83	15.3	CO2 (Avg) % =

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17205	4:46:45	81.7	69.0	179.5	68.2	8.82	15.5	8.80
17220	4:47:00	81.5	68.9	179.3	69.3	8.83	15.4	NOx (Avg) ppm =
17235	4:47:15	81.3	69.0	179.7	69.8	8.86	15.6	15.0
17250	4:47:30	81.7	69.0	179.3	69.3	8.85	15.7	CO (Max) ppm =
17265	4:47:45	81.7	69.0	179.8	68.2	8.83	15.6	70.3
17280	4:48:00	81.9	69.1	179.6	68.7	8.83	15.4	Ambient (Avg) F =
17295	4:48:15	83.4	69.3	179.6	68.2	8.84	15.5	82.4
17310	4:48:30	84.4	69.2	179.5	67.7	8.82	15.4	T_In (Avg) F =
17325	4:48:45	85.0	69.2	179.7	69.3	8.85	15.2	69.1
17340	4:49:00	84.5	68.9	179.8	69.8	8.85	15.6	T_Del (Avg) F =
17355	4:49:15	83.4	69.0	179.6	70.3	8.86	15.7	179.3
17370	4:49:30	82.8	69.1	179.3	70.3	8.86	15.9	
17385	4:49:45	82.6	69.0	179.5	69.8	8.86	15.9	
17400	4:50:00	82.0	68.9	180.2	70.9	8.86	15.8	
17415	4:50:15	81.8	69.0	179.3	70.3	8.87	15.9	
17430	4:50:30	82.1	68.8	180.1	69.8	8.86	15.8	
17445	4:50:45	82.3	69.0	179.7	68.7	8.86	15.5	
17460	4:51:00	83.7	69.1	179.7	69.8	8.85	15.5	
17475	4:51:15	84.0	69.2	179.7	69.8	8.84	15.6	
17490	4:51:30	83.9	69.0	179.6	69.8	8.84	15.7	
17505	4:51:45	83.8	69.0	179.9	68.7	8.83	15.6	
17520	4:52:00	84.5	68.9	179.8	68.2	8.82	15.3	
17535	4:52:15	83.9	69.0	179.5	68.2	8.82	15.3	
17550	4:52:30	83.1	69.0	179.3	68.7	8.82	15.4	
17565	4:52:45	82.6	69.0	179.5	68.2	8.82	15.4	
17580	4:53:00	82.4	69.1	179.3	68.7	8.83	15.4	
17595	4:53:15	82.3	69.0	179.5	68.2	8.83	15.4	
17610	4:53:30	83.5	69.1	179.6	68.7	8.83	15.4	
17625	4:53:45	83.1	68.9	179.6	68.2	8.82	15.4	
17640	4:54:00	83.5	69.2	179.1	67.1	8.80	15.4	
17655	4:54:15	83.4	69.0	179.6	67.1	8.80	15.5	
17670	4:54:30	83.4	69.1	180.1	68.2	8.81	15.5	
17685	4:54:45	83.4	69.1	179.2	68.7	8.83	15.4	
17700	4:55:00	83.0	69.1	179.3	67.7	8.81	15.5	
17715	4:55:15	83.1	69.0	180.2	68.2	8.82	15.4	
17730	4:55:30	82.7	69.1	179.8	68.7	8.83	15.4	
17745	4:55:45	82.4	69.1	179.3	68.7	8.83	15.5	
17760	4:56:00	82.4	69.0	160.7	68.2	8.84	15.5	
17775	4:56:15	82.3	68.9	144.5	40.0	8.91	16.1	
17790	4:56:30	82.7	68.3	143.1	35.2	8.94	17.4	
17805	4:56:45	82.4	68.1	142.9	32.5	8.92	18.0	
17820	4:57:00	82.3	67.8	141.2	31.5	8.91	17.8	
17835	4:57:15	82.2	66.9	140.4	30.9	8.93	18.1	
17850	4:57:30	81.6	66.7	145.1	30.4	8.93	18.4	
17865	4:57:45	81.4	67.2	156.9	29.9	8.94	18.4	
17880	4:58:00	81.6	68.8	167.2	28.8	8.93	18.3	
17895	4:58:15	81.7	68.8	172.1	28.8	8.94	18.2	

Manufacturer: RIELLO
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Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17910	4:58:30	82.2	68.8	172.9	28.3	8.93	18.1	
17925	4:58:45	82.3	68.8	173.4	28.3	8.90	18.1	
17940	4:59:00	82.0	68.9	173.6	28.3	8.91	18.0	
17955	4:59:15	82.9	69.0	174.2	28.3	8.90	18.0	
17970	4:59:30	83.0	69.2	174.9	28.8	8.93	18.1	
17985	4:59:45	82.6	69.4	174.8	27.2	8.88	18.2	
18000	5:00:00	82.5	69.7	174.4	26.7	8.86	17.3	
18015	5:00:15	82.1	69.8	174.9	26.1	8.85	17.2	
18030	5:00:30	83.0	69.9	174.7	26.2	8.84	17.0	
18045	5:00:45	82.7	69.9	175.3	26.1	8.83	17.0	
18060	5:01:00	82.4	70.0	175.0	26.1	8.85	16.9	
18075	5:01:15	81.8	70.1	175.3	26.7	8.87	17.0	
18090	5:01:30	81.6	70.3	175.6	26.7	8.87	17.2	
18105	5:01:45	82.0	70.6	176.0	26.7	8.86	17.1	
18120	5:02:00	81.7	70.5	176.5	26.1	8.85	17.2	
18135	5:02:15	82.2	70.4	177.3	26.2	8.85	17.0	
18150	5:02:30	82.0	70.2	177.2	26.7	8.86	17.0	
18165	5:02:45	81.8	70.4	178.0	26.7	8.86	17.2	
18180	5:03:00	81.6	70.4	178.1	26.7	8.86	17.2	
18195	5:03:15	81.5	70.5	178.8	27.2	8.86	17.0	
18210	5:03:30	81.8	70.5	178.4	27.2	8.88	17.1	
18225	5:03:45	81.5	70.5	178.5	27.2	8.87	17.3	
18240	5:04:00	81.7	70.5	178.3	27.2	8.87	17.1	
18255	5:04:15	81.3	70.6	178.9	27.2	8.87	17.1	
18270	5:04:30	81.5	70.7	179.4	27.2	8.87	17.0	
18285	5:04:45	81.5	70.9	178.9	26.7	8.84	17.0	
18300	5:05:00	81.4	70.9	179.2	26.7	8.84	16.8	
18315	5:05:15	81.4	70.9	179.2	26.1	8.83	16.8	
18330	5:05:30	81.6	70.9	179.3	26.1	8.83	16.7	
18345	5:05:45	81.4	70.9	178.9	26.1	8.83	16.6	
18360	5:06:00	81.8	71.0	179.1	26.1	8.83	16.8	
18375	5:06:15	81.8	70.9	179.1	26.1	8.83	16.7	
18390	5:06:30	81.9	70.9	179.1	26.1	8.82	16.6	
18405	5:06:45	81.7	70.8	179.5	26.1	8.83	16.6	
18420	5:07:00	81.7	70.9	179.3	26.7	8.83	16.7	
18435	5:07:15	81.6	71.0	179.6	26.7	8.84	16.8	
18450	5:07:30	81.4	71.1	179.4	26.7	8.85	16.9	
18465	5:07:45	81.9	71.0	179.6	26.7	8.86	16.9	
18480	5:08:00	81.8	71.0	180.0	26.1	8.84	16.7	
18495	5:08:15	81.8	71.0	179.1	26.2	8.85	16.6	
18510	5:08:30	81.6	71.0	179.4	26.2	8.85	16.7	
18525	5:08:45	81.5	71.0	180.0	26.1	8.84	16.8	
18540	5:09:00	81.3	71.0	179.4	26.1	8.83	16.6	
18555	5:09:15	81.7	71.1	179.6	25.6	8.82	16.6	
18570	5:09:30	81.8	71.0	179.3	25.6	8.82	16.6	
18585	5:09:45	82.1	71.0	179.8	27.7	8.88	16.6	
18600	5:10:00	82.3	71.0	179.9	28.3	8.90	17.7	
18615	5:10:15	81.7	71.0	179.7	27.7	8.88	17.8	

Manufacturer: RIELLO
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Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
18630	5:10:30	82.4	71.1	179.8	26.7	8.85	17.5	
18645	5:10:45	82.9	71.1	179.5	26.1	8.84	17.1	
18660	5:11:00	82.0	71.0	180.2	26.2	8.84	16.8	
18675	5:11:15	82.3	71.0	179.8	26.1	8.87	16.8	
18690	5:11:30	82.1	71.0	179.7	26.7	8.85	16.8	
18705	5:11:45	81.6	71.1	179.7	27.7	8.89	16.9	
18720	5:12:00	81.6	71.1	179.7	27.7	8.87	17.7	
18735	5:12:15	81.5	71.2	180.2	28.3	8.90	17.6	
18750	5:12:30	81.6	71.3	180.7	28.3	8.89	17.5	
18765	5:12:45	81.6	71.4	180.0	26.7	8.83	17.5	
18780	5:13:00	81.5	71.4	179.7	25.6	8.81	16.5	Start Mid Fire Equilibrium - #3
18795	5:13:15	81.6	71.4	179.6	25.6	8.81	15.6	
18810	5:13:30	81.3	71.4	180.2	25.6	8.83	15.6	
18825	5:13:45	81.4	71.4	179.4	25.6	8.83	15.5	
18840	5:14:00	81.6	71.4	179.7	25.1	8.82	15.6	
18855	5:14:15	81.6	71.5	180.0	25.6	8.83	15.5	
18870	5:14:30	82.0	71.5	179.7	26.1	8.86	15.7	
18885	5:14:45	82.1	71.5	179.8	26.7	8.86	16.0	
18900	5:15:00	81.6	71.3	179.8	26.2	8.86	16.0	
18915	5:15:15	81.4	71.4	179.8	26.1	8.88	16.0	
18930	5:15:30	81.4	71.4	179.7	25.6	8.84	15.8	
18945	5:15:45	81.9	71.5	180.1	25.6	8.86	15.8	
18960	5:16:00	81.7	71.4	180.0	25.6	8.87	16.0	
18975	5:16:15	81.8	71.4	179.8	25.6	8.84	15.9	
18990	5:16:30	81.9	71.4	179.6	25.1	8.82	15.7	
19005	5:16:45	82.0	71.3	179.2	25.1	8.83	15.7	End Mid Fire Equilibrium - #3
19020	5:17:00	81.8	71.4	179.5	25.1	8.82	15.7	
19035	5:17:15	82.1	71.4	179.7	25.1	8.83	15.7	
19050	5:17:30	82.3	71.5	179.9	25.1	8.84	15.9	
19065	5:17:45	82.5	71.3	179.4	25.1	8.83	16.0	
19080	5:18:00	82.1	71.4	180.3	25.1	8.84	15.6	
19095	5:18:15	82.4	71.2	180.0	25.1	8.86	15.8	
19110	5:18:30	82.5	71.3	179.4	25.6	8.85	16.0	
19125	5:18:45	82.3	71.3	179.5	25.1	8.84	15.9	
19140	5:19:00	82.8	71.3	179.6	25.6	8.84	15.8	
19155	5:19:15	82.7	71.3	179.6	25.2	8.85	15.8	
19170	5:19:30	82.5	71.4	179.6	25.6	8.87	15.9	
19185	5:19:45	82.8	71.3	179.1	25.6	8.86	16.0	
19200	5:20:00	82.6	71.3	179.0	25.6	8.86	16.2	
19215	5:20:15	82.4	71.3	178.9	25.6	8.88	16.2	
19230	5:20:30	82.8	71.3	179.8	25.6	8.85	16.1	
19245	5:20:45	82.5	71.4	179.3	25.6	8.86	15.9	
19260	5:21:00	82.8	71.4	179.6	25.6	8.86	16.0	
19275	5:21:15	82.6	71.3	179.1	25.6	8.86	16.0	
19290	5:21:30	82.2	71.3	179.4	25.6	8.87	16.1	
19305	5:21:45	82.2	71.3	179.7	25.6	8.84	16.2	
19320	5:22:00	82.9	71.2	179.4	25.6	8.87	15.9	
19335	5:22:15	82.6	71.3	179.1	25.6	8.88	16.0	

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Date: June 23, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
19350	5:22:30	82.1	71.2	179.8	25.1	8.84	16.0	
19365	5:22:45	82.3	71.2	179.1	25.1	8.84	15.8	
19380	5:23:00	81.7	71.2	179.6	25.1	8.85	15.9	
19395	5:23:15	82.0	71.3	179.6	25.6	8.88	15.9	
19410	5:23:30	81.7	71.3	179.2	25.6	8.86	16.0	
19425	5:23:45	82.0	71.3	179.4	25.6	8.87	16.1	
19440	5:24:00	81.9	71.4	179.7	25.6	8.86	16.1	
19455	5:24:15	82.0	71.3	179.5	25.1	8.85	16.0	
19470	5:24:30	82.1	71.3	179.3	25.6	8.86	15.9	
19485	5:24:45	81.9	71.3	179.5	25.6	8.86	15.8	
19500	5:25:00	81.8	71.3	179.3	25.6	8.86	16.0	
19515	5:25:15	81.8	71.4	179.9	25.6	8.85	16.0	
19530	5:25:30	82.0	71.3	179.8	25.1	8.85	16.0	
19545	5:25:45	82.0	71.4	179.9	25.6	8.87	16.0	
19560	5:26:00	82.1	71.4	179.6	25.6	8.87	16.0	
19575	5:26:15	82.0	71.4	179.9	26.1	8.90	16.2	
19590	5:26:30	82.3	71.4	179.8	25.6	8.86	16.1	
19605	5:26:45	82.2	71.5	179.7	26.7	8.89	15.9	
19620	5:27:00	82.1	71.4	180.5	26.7	8.90	16.7	
19635	5:27:15	82.2	71.4	179.9	27.2	8.90	16.7	
19650	5:27:30	82.2	71.4	180.7	27.7	8.91	16.8	
19665	5:27:45	82.1	71.4	180.1	27.8	8.92	16.9	
19680	5:28:00	82.2	71.3	181.2	28.3	8.93	17.1	
19695	5:28:15	82.0	71.4	180.4	28.8	8.93	17.2	
19710	5:28:30	82.2	71.5	181.1	28.3	8.92	17.2	
19725	5:28:45	82.2	71.4	180.3	26.1	8.87	17.1	
19740	5:29:00	82.1	71.4	180.0	25.6	8.87	16.0	
19755	5:29:15	82.2	71.5	180.1	26.1	8.88	16.1	
19770	5:29:30	82.2	71.5	179.9	26.1	8.88	16.1	
19785	5:29:45	82.2	71.5	180.7	26.1	8.89	16.1	
19800	5:30:00	82.2	71.4	180.6	26.3	8.88	16.2	
19815	5:30:15	81.8	71.5	180.5	27.2	8.92	16.5	
19830	5:30:30	81.9	71.5	180.6	26.7	8.89	16.6	
19845	5:30:45	81.9	71.5	181.0	26.1	8.87	16.4	
19860	5:31:00	82.3	71.5	179.9	25.6	8.86	16.0	
19875	5:31:15	82.3	71.5	180.0	25.1	8.86	16.0	
19890	5:31:30	82.1	71.5	180.0	25.1	8.86	16.0	
19905	5:31:45	81.9	71.5	179.9	25.1	8.85	16.1	
19920	5:32:00	82.5	71.5	179.6	24.6	8.84	15.9	
19935	5:32:15	82.6	71.4	179.9	25.1	8.87	15.8	
19950	5:32:30	82.5	71.4	179.7	25.6	8.89	15.8	
19965	5:32:45	82.4	71.3	180.3	25.6	8.87	15.9	
19980	5:33:00	82.3	71.4	180.2	25.6	8.87	15.8	
19995	5:33:15	82.0	71.4	180.1	25.6	8.87	15.9	
20010	5:33:30	82.2	71.3	180.1	25.1	8.85	15.8	
20025	5:33:45	82.3	71.4	180.0	25.6	8.86	15.8	
20040	5:34:00	82.3	71.3	180.5	25.6	8.86	16.1	
20055	5:34:15	82.1	71.3	180.3	25.6	8.87	16.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20070	5:34:30	82.2	71.3	179.7	25.6	8.87	16.1	
20085	5:34:45	81.6	71.3	179.9	25.6	8.87	16.1	
20100	5:35:00	81.6	71.2	179.6	25.6	8.87	16.1	
20115	5:35:15	81.8	71.2	179.5	25.1	8.86	16.1	
20130	5:35:30	81.6	71.2	180.1	25.1	8.87	16.1	
20145	5:35:45	81.8	71.3	179.7	25.6	8.87	16.1	
20160	5:36:00	81.9	71.2	179.6	25.6	8.87	16.1	
20175	5:36:15	82.0	71.4	179.7	25.6	8.88	16.0	
20190	5:36:30	82.1	71.2	179.6	26.1	8.89	16.1	
20205	5:36:45	81.8	71.3	180.0	25.6	8.88	16.2	
20220	5:37:00	81.7	71.2	180.2	25.6	8.88	16.1	
20235	5:37:15	81.8	71.3	180.0	25.6	8.88	16.1	
20250	5:37:30	81.6	71.3	180.0	25.6	8.87	16.1	
20265	5:37:45	81.8	71.3	180.1	24.5	8.85	16.0	
20280	5:38:00	81.9	71.2	179.9	24.5	8.84	15.5	
20295	5:38:15	81.6	71.2	179.3	25.1	8.87	15.7	
20310	5:38:30	81.8	71.3	180.0	25.1	8.86	15.9	
20325	5:38:45	81.9	71.3	180.1	25.1	8.86	15.9	
20340	5:39:00	82.5	71.4	180.2	25.1	8.87	15.7	
20355	5:39:15	82.8	71.4	180.0	24.6	8.86	15.8	
20370	5:39:30	82.4	71.4	179.9	25.1	8.86	15.8	
20385	5:39:45	82.7	71.3	180.4	25.1	8.87	15.7	
20400	5:40:00	82.9	71.2	180.7	25.1	8.86	16.0	
20415	5:40:15	82.5	71.3	180.1	25.5	8.87	15.9	
20430	5:40:30	82.1	71.1	180.1	26.1	8.89	16.0	
20445	5:40:45	82.6	71.1	180.8	25.6	8.87	16.1	
20460	5:41:00	82.8	71.1	180.3	25.6	8.87	15.9	
20475	5:41:15	82.6	71.2	181.1	25.6	8.87	16.0	
20490	5:41:30	81.9	71.2	180.9	25.6	8.87	16.1	
20505	5:41:45	81.7	71.2	180.2	26.1	8.87	16.1	
20520	5:42:00	81.7	71.2	181.0	25.6	8.87	16.0	
20535	5:42:15	81.2	71.3	180.8	26.1	8.89	16.1	
20550	5:42:30	81.2	71.2	180.0	26.7	8.90	16.1	
20565	5:42:45	81.4	71.2	180.2	27.2	8.92	16.1	
20580	5:43:00	81.2	71.1	180.6	27.7	8.93	16.7	
20595	5:43:15	81.4	71.1	180.8	27.7	8.94	16.9	
20610	5:43:30	81.7	71.2	180.8	26.7	8.90	16.7	
20625	5:43:45	81.9	71.2	180.2	26.1	8.88	16.5	
20640	5:44:00	81.3	71.1	180.4	25.6	8.87	16.0	
20655	5:44:15	81.4	71.2	180.0	25.1	8.87	16.0	
20670	5:44:30	81.9	71.4	180.7	25.1	8.87	16.0	
20685	5:44:45	82.0	71.0	180.6	25.1	8.85	16.0	
20700	5:45:00	81.4	71.2	180.9	25.1	8.84	15.8	
20715	5:45:15	81.3	71.3	180.4	25.1	8.86	15.9	
20730	5:45:30	81.9	71.4	179.9	25.1	8.87	16.0	
20745	5:45:45	82.2	71.4	179.7	26.1	8.89	15.9	
20760	5:46:00	82.3	71.3	180.2	26.1	8.89	16.2	Start Emissions
20775	5:46:15	82.6	71.3	180.5	26.1	8.89	16.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20790	5:46:30	82.0	71.3	180.0	26.7	8.90	16.2	
20805	5:46:45	81.9	71.2	180.1	26.1	8.88	16.1	
20820	5:47:00	81.7	71.2	179.5	25.6	8.88	15.9	1st Minute
20835	5:47:15	81.8	71.2	179.4	25.6	8.88	16.0	
20850	5:47:30	81.4	71.2	179.3	25.6	8.86	15.9	
20865	5:47:45	81.3	71.3	179.4	25.6	8.87	15.7	
20880	5:48:00	81.3	71.4	180.0	25.6	8.87	15.9	2nd Minute
20895	5:48:15	81.1	71.5	179.6	25.6	8.88	16.0	
20910	5:48:30	81.2	71.4	180.1	26.7	8.90	16.1	
20925	5:48:45	81.2	71.3	179.4	25.6	8.86	16.2	
20940	5:49:00	81.5	71.5	179.3	25.6	8.87	15.7	3rd Minute / EOT - Mid Fire - #3
20955	5:49:15	81.8	71.4	179.1	26.2	8.88	15.9	
20970	5:49:30	82.0	71.4	179.9	26.1	8.88	16.2	CO2 (Avg) % =
20985	5:49:45	82.2	71.4	179.0	25.6	8.87	16.1	8.88
21000	5:50:00	82.1	71.3	179.1	25.6	8.88	15.9	NOx (Avg) ppm =
21015	5:50:15	81.6	71.2	178.9	25.6	8.88	16.0	16.0
21030	5:50:30	81.7	71.4	179.2	26.1	8.88	16.1	CO (Max) ppm =
21045	5:50:45	81.4	71.3	179.3	26.1	8.88	16.1	28.8
21060	5:51:00	81.3	71.4	179.2	25.6	8.87	16.1	Ambient (Avg) F =
21075	5:51:15	81.3	71.4	179.0	26.1	8.90	16.1	82.0
21090	5:51:30	81.2	71.4	179.1	27.2	8.92	16.4	T_In (Avg) F =
21105	5:51:45	81.2	71.4	179.6	26.1	8.90	16.7	71.3
21120	5:52:00	81.3	71.3	179.4	26.1	8.88	16.3	T_Del (Avg) F =
21135	5:52:15	81.3	71.3	179.3	25.6	8.88	16.2	180.0
21150	5:52:30	81.1	71.3	179.5	25.6	8.89	16.2	
21165	5:52:45	81.2	71.1	179.8	26.1	8.89	16.2	
21180	5:53:00	81.6	71.2	179.6	26.1	8.89	16.6	
21195	5:53:15	81.8	71.2	179.1	25.6	8.89	16.4	
21210	5:53:30	81.5	71.3	179.5	25.6	8.87	16.1	
21225	5:53:45	81.6	71.3	179.2	25.6	8.88	15.9	
21240	5:54:00	81.5	71.3	179.0	25.6	8.88	16.1	
21255	5:54:15	81.6	71.2	178.8	25.6	8.87	16.0	
21270	5:54:30	82.0	71.3	172.5	25.6	8.87	15.8	
21285	5:54:45	81.5	71.1	142.7	3.9	2.90	16.5	
21300	5:55:00	81.8	71.1	112.1	0.0	0.06	6.4	
21315	5:55:15	81.5	70.9	93.9	0.0	0.03	3.3	
21330	5:55:30	82.4	70.6	85.1	0.0	0.01	0.2	
21345	5:55:45	82.5	70.4	80.5	0.0	0.01	0.2	
21360	5:56:00	82.8	70.2	77.8	0.0	0.01	0.1	
21375	5:56:15	82.5	69.8	75.7	0.0	0.00	0.1	
21390	5:56:30	82.1	69.5	74.4	0.0	0.00	0.1	
21405	5:56:45	82.4	68.9	73.7	0.0	0.00	0.1	
21420	5:57:00	82.6	68.6	73.2	0.0	0.00	0.1	
21435	5:57:15	82.7	68.1	72.8	0.0	0.00	0.1	
21450	5:57:30	82.0	67.6	72.4	0.0	0.00	0.1	
21465	5:57:45	82.0	67.2	72.1	0.0	0.00	0.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
21480	5:58:00	82.0	66.8	71.8	0.0	0.00	0.1	Start Zero OUT
21495	5:58:15	82.1	66.5	71.3	0.0	0.00	0.1	
21510	5:58:30	82.2	66.3	70.9	0.0	0.00	0.1	
21525	5:58:45	82.5	66.2	70.5	0.0	0.00	0.1	
21540	5:59:00	82.2	65.9	70.0	0.0	0.00	0.1	
21555	5:59:15	81.8	65.8	69.6	0.0	0.00	0.1	
21570	5:59:30	81.9	65.7	69.2	0.0	0.00	0.1	
21585	5:59:45	82.0	65.5	68.7	0.0	0.00	0.1	
21600	6:00:00	81.7	65.5	68.4	0.0	0.00	0.1	
21615	6:00:15	81.8	65.4	68.1	0.0	0.00	0.1	
21630	6:00:30	82.0	65.3	67.9	0.0	0.00	0.1	
21645	6:00:45	82.0	65.3	67.7	0.0	0.00	0.1	
21660	6:01:00	82.2	65.3	67.4	0.0	0.00	0.1	
21675	6:01:15	82.3	65.2	67.2	0.0	0.00	0.1	
21690	6:01:30	81.9	65.1	67.1	0.0	0.00	0.0	
21705	6:01:45	81.9	65.1	67.0	0.0	0.00	0.0	Analyzer Zero OUT
21720	6:02:00	81.7	65.0	66.8	0.0	0.00	0.0	
21735	6:02:15	81.8	65.0	66.8	0.0	0.00	0.0	
21750	6:02:30	81.9	64.9	66.6	0.0	0.00	0.0	
21765	6:02:45	81.7	65.1	66.7	0.0	0.00	0.0	
21780	6:03:00	81.9	65.2	66.7	0.0	0.00	0.0	
21795	6:03:15	82.2	65.4	66.8	0.0	0.00	0.0	
21810	6:03:30	82.2	65.5	67.0	1.1	0.00	0.0	
21825	6:03:45	82.4	65.6	67.1	711.5	7.38	0.0	
21840	6:04:00	82.1	65.7	67.3	940.0	9.36	20.7	
21855	6:04:15	81.8	65.7	67.2	957.1	9.46	23.4	
21870	6:04:30	81.4	65.7	67.3	961.8	9.48	26.2	
21885	6:04:45	81.4	65.7	67.3	963.4	9.48	26.3	
21900	6:05:00	82.3	65.8	67.5	964.0	9.48	26.4	Start High Span OUT
21915	6:05:15	82.4	65.9	67.5	964.5	9.48	26.4	
21930	6:05:30	82.2	66.0	67.6	964.5	9.48	26.5	
21945	6:05:45	82.6	66.1	67.7	964.5	9.49	26.5	
21960	6:06:00	82.5	66.1	67.8	965.0	9.49	26.5	
21975	6:06:15	82.1	66.2	68.2	964.5	9.49	26.5	
21990	6:06:30	81.9	66.2	68.6	965.0	9.49	26.5	
22005	6:06:45	81.8	66.3	69.1	965.0	9.49	26.6	
22020	6:07:00	82.1	66.4	69.4	965.0	9.49	26.5	
22035	6:07:15	81.8	66.6	69.7	965.0	9.49	26.6	
22050	6:07:30	82.1	66.7	69.9	965.0	9.49	26.6	
22065	6:07:45	82.2	66.8	70.1	965.0	9.49	26.6	
22080	6:08:00	82.0	66.9	70.2	965.0	9.49	26.6	
22095	6:08:15	81.9	67.0	70.3	965.6	9.49	26.6	
22110	6:08:30	81.5	67.0	70.4	965.0	9.49	26.6	
22125	6:08:45	81.8	67.2	70.5	965.6	9.49	26.6	
22140	6:09:00	81.9	67.3	70.7	965.6	9.49	26.6	
22155	6:09:15	82.0	67.4	70.7	965.6	9.49	26.6	
22170	6:09:30	81.9	67.6	70.9	965.6	9.49	26.6	
22185	6:09:45	81.9	67.6	71.0	965.6	9.49	26.6	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22200	6:10:00	82.2	67.7	71.0	965.6	9.49	26.6	
22215	6:10:15	81.9	67.8	71.2	965.6	9.49	26.6	
22230	6:10:30	81.6	67.9	71.3	965.6	9.49	26.6	
22245	6:10:45	81.5	68.1	71.4	965.1	9.49	26.6	
22260	6:11:00	81.5	68.2	71.5	965.6	9.49	26.6	Analyzer High Span OUT
22275	6:11:15	82.0	68.3	71.6	965.6	9.49	26.6	
22290	6:11:30	82.3	68.4	71.7	957.8	9.49	26.4	
22305	6:11:45	82.2	68.5	71.8	578.3	5.40	26.2	
22320	6:12:00	82.2	68.6	71.9	504.1	5.04	18.1	
22335	6:12:15	81.7	68.7	72.0	497.2	5.01	16.3	
22350	6:12:30	82.0	68.8	72.0	495.0	5.00	14.5	
22365	6:12:45	82.1	68.8	72.1	495.0	5.00	14.5	
22380	6:13:00	81.8	68.8	72.1	494.5	5.00	14.5	
22395	6:13:15	81.6	68.8	72.2	494.5	5.00	14.5	
22410	6:13:30	82.0	68.9	72.2	494.5	5.00	14.5	
22425	6:13:45	81.9	69.0	72.2	494.5	5.00	14.5	
22440	6:14:00	81.6	69.0	72.3	494.5	5.00	14.5	Start Mid Span OUT
22455	6:14:15	81.1	69.2	72.4	494.5	5.00	14.5	
22470	6:14:30	81.3	69.2	72.5	494.5	5.00	14.5	
22485	6:14:45	81.4	69.3	72.6	494.5	5.00	14.5	
22500	6:15:00	81.5	69.4	72.6	494.5	5.00	14.5	
22515	6:15:15	81.6	69.5	72.7	494.5	5.00	14.5	
22530	6:15:30	81.6	69.6	72.8	494.5	5.00	14.5	
22545	6:15:45	81.7	69.7	72.8	494.5	5.00	14.5	
22560	6:16:00	81.3	69.8	72.9	494.5	5.00	14.5	
22575	6:16:15	81.4	69.8	73.0	494.5	5.00	14.5	
22590	6:16:30	81.3	69.9	73.0	494.5	5.00	14.5	
22605	6:16:45	81.8	70.0	73.1	494.5	5.00	14.5	
22620	6:17:00	81.8	70.1	73.1	494.5	5.00	14.5	
22635	6:17:15	81.1	70.1	73.2	494.5	5.00	14.5	
22650	6:17:30	81.6	70.2	73.2	494.5	5.00	14.4	
22665	6:17:45	81.2	70.2	73.2	495.0	5.00	14.4	
22680	6:18:00	81.4	70.3	73.3	494.5	5.00	14.4	
22695	6:18:15	81.3	70.3	73.4	495.0	5.00	14.4	
22710	6:18:30	81.5	70.6	73.5	495.0	5.00	14.4	
22725	6:18:45	81.5	70.6	73.6	495.0	5.00	14.4	
22740	6:19:00	82.1	70.8	73.6	494.5	5.00	14.4	Analyzer Mid Span OUT
22755	6:19:15	81.8	70.9	73.7	494.5	5.00	14.4	
22770	6:19:30	82.0	70.9	73.8	494.5	5.00	14.2	
22785	6:19:45	81.8	70.9	73.8	494.5	5.00	14.0	
22800	6:20:00	81.7	71.0	73.8	386.6	4.37	14.3	
22815	6:20:15	81.7	71.0	73.9	250.8	2.63	13.7	
22830	6:20:30	81.6	71.1	73.9	240.1	2.58	10.0	
22845	6:20:45	81.6	71.1	73.9	237.4	2.58	6.9	
22860	6:21:00	81.8	71.1	73.9	236.9	2.58	6.9	
22875	6:21:15	81.5	71.1	74.0	236.4	2.58	6.9	
22890	6:21:30	81.5	71.2	74.1	236.9	2.58	6.9	
22905	6:21:45	82.1	71.4	74.1	236.9	2.57	6.9	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22920	6:22:00	82.1	71.5	74.2	236.4	2.57	6.9	Start Low Span OUT
22935	6:22:15	82.3	71.6	74.3	236.4	2.57	6.9	
22950	6:22:30	82.2	71.6	74.3	236.9	2.57	6.9	
22965	6:22:45	82.3	71.8	74.4	236.4	2.57	6.9	
22980	6:23:00	82.7	71.9	74.5	236.7	2.57	6.9	
22995	6:23:15	82.5	71.9	74.6	236.4	2.57	6.9	
23010	6:23:30	81.9	71.9	74.5	236.9	2.57	6.9	
23025	6:23:45	82.0	72.0	74.5	236.9	2.57	6.9	
23040	6:24:00	82.1	72.0	74.7	236.9	2.57	6.8	
23055	6:24:15	81.9	72.1	74.7	236.9	2.57	6.9	
23070	6:24:30	82.3	72.1	74.7	236.9	2.57	6.9	
23085	6:24:45	81.9	72.2	74.7	236.9	2.57	6.9	
23100	6:25:00	82.2	72.2	74.8	236.9	2.57	6.9	
23115	6:25:15	82.5	72.3	74.8	236.9	2.57	6.9	
23130	6:25:30	82.4	72.3	74.8	236.9	2.57	6.9	
23145	6:25:45	82.1	72.3	74.8	236.9	2.57	6.9	
23160	6:26:00	82.1	72.4	74.9	236.9	2.57	6.9	
23175	6:26:15	82.0	72.3	74.9	236.9	2.57	6.9	
23190	6:26:30	81.9	72.5	74.9	236.9	2.57	6.9	
23205	6:26:45	81.9	72.4	75.0	236.9	2.57	6.9	Analyzer Low Span OUT
23220	6:27:00	81.7	72.5	74.9	236.9	2.57	6.9	
23235	6:27:15	81.7	72.5	75.0	236.9	2.57	6.9	
23250	6:27:30	82.1	72.5	75.1	236.9	2.57	6.9	
23265	6:27:45	82.1	72.5	75.0	236.9	2.57	6.8	
23280	6:28:00	84.1	72.5	75.0	236.9	2.57	6.8	
23295	6:28:15	82.3	72.6	75.0	230.3	2.58	6.8	
23310	6:28:30	82.0	72.6	75.1	35.0	0.61	6.0	
23325	6:28:45	81.9	72.7	75.1	0.1	0.08	5.2	
23340	6:29:00	81.7	72.8	75.2	0.0	0.02	1.4	
23355	6:29:15	81.3	72.9	75.3	0.0	0.01	1.3	Start Zero Bias OUT
23370	6:29:30	81.3	72.9	75.3	0.0	0.01	1.2	
23385	6:29:45	81.9	73.0	75.4	0.0	0.00	1.2	
23400	6:30:00	81.5	73.0	75.4	0.0	0.00	1.1	
23415	6:30:15	81.6	73.1	75.4	0.0	0.00	1.1	
23430	6:30:30	81.5	73.2	75.5	0.0	0.00	1.0	
23445	6:30:45	81.4	73.2	75.5	0.0	0.00	0.9	
23460	6:31:00	81.4	73.3	75.5	0.0	0.00	0.9	
23475	6:31:15	81.5	73.4	75.6	0.0	0.00	0.8	
23490	6:31:30	81.2	73.4	75.6	0.0	0.00	0.8	
23505	6:31:45	81.5	73.5	75.7	0.0	0.00	0.7	
23520	6:32:00	81.7	73.5	75.7	0.0	0.00	0.7	
23535	6:32:15	81.9	73.6	75.8	0.0	0.00	0.7	
23550	6:32:30	81.7	73.6	75.8	0.0	0.00	0.6	
23565	6:32:45	81.3	73.7	75.8	0.0	0.00	0.6	
23580	6:33:00	81.0	73.7	75.9	0.0	0.00	0.6	
23595	6:33:15	81.3	73.8	75.9	0.0	0.00	0.6	
23610	6:33:30	81.6	73.9	75.9	0.0	0.00	0.5	
23625	6:33:45	81.8	73.9	76.0	0.0	0.00	0.5	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
23640	6:34:00	81.8	73.9	76.0	0.0	0.00	0.5	
23655	6:34:15	81.5	74.0	76.0	0.0	0.00	0.5	
23670	6:34:30	82.1	74.1	76.1	0.0	0.00	0.5	
23685	6:34:45	81.8	74.0	76.2	0.0	0.00	0.4	
23700	6:35:00	81.8	74.1	76.1	0.0	0.00	0.4	System Zero OUT
23715	6:35:15	81.4	74.1	76.1	0.0	0.00	0.4	
23730	6:35:30	82.0	74.1	76.1	0.0	0.00	0.4	
23745	6:35:45	81.7	74.2	76.2	0.0	0.00	0.4	
23760	6:36:00	81.8	74.2	76.3	18.5	0.04	0.4	
23775	6:36:15	81.9	74.3	76.3	393.5	4.53	0.4	
23790	6:36:30	81.9	74.4	76.3	473.5	4.89	0.4	
23805	6:36:45	82.0	74.4	76.3	481.8	4.95	0.3	
23820	6:37:00	82.2	74.5	76.3	484.9	4.97	0.4	
23835	6:37:15	81.9	74.5	76.4	486.5	4.98	0.4	
23850	6:37:30	81.7	74.5	76.4	486.5	4.98	0.4	
23865	6:37:45	81.8	74.5	76.4	487.1	4.98	0.4	
23880	6:38:00	81.9	74.6	76.5	487.1	4.98	0.3	Start Mid CO/CO2 Bias OUT
23895	6:38:15	81.7	74.7	76.5	487.1	4.98	0.3	
23910	6:38:30	81.1	74.8	76.5	487.1	4.98	0.3	
23925	6:38:45	81.3	74.8	76.6	487.6	4.98	0.3	
23940	6:39:00	82.0	74.8	76.6	487.5	4.99	0.3	
23955	6:39:15	82.1	74.8	76.6	487.1	4.98	0.3	
23970	6:39:30	81.9	74.9	76.7	487.6	4.99	0.3	
23985	6:39:45	81.6	74.9	76.7	487.6	4.99	0.3	
24000	6:40:00	82.2	74.9	76.7	487.6	4.99	0.2	
24015	6:40:15	81.9	75.0	76.8	487.1	4.99	0.2	
24030	6:40:30	82.1	75.0	76.8	487.6	4.99	0.2	
24045	6:40:45	82.2	75.0	76.8	487.6	4.99	0.2	
24060	6:41:00	82.3	75.0	76.8	487.6	4.99	0.2	
24075	6:41:15	82.3	75.1	76.9	487.6	4.99	0.2	
24090	6:41:30	82.0	75.1	76.9	487.6	4.99	0.2	
24105	6:41:45	82.0	75.1	76.9	487.6	4.99	0.2	
24120	6:42:00	81.8	75.2	76.9	487.6	4.99	0.2	
24135	6:42:15	82.1	75.2	76.9	487.6	4.99	0.2	
24150	6:42:30	81.8	75.3	77.0	487.6	4.99	0.2	
24165	6:42:45	81.8	75.3	77.1	487.6	4.99	0.2	
24180	6:43:00	82.0	75.3	77.0	487.6	4.99	0.2	System Mid CO/CO2 OUT
24195	6:43:15	82.2	75.4	77.1	487.6	4.99	0.2	
24210	6:43:30	82.2	75.4	77.0	487.6	4.99	0.2	
24225	6:43:45	81.9	75.5	77.1	257.7	3.20	0.2	
24240	6:44:00	81.9	75.6	77.2	183.5	1.98	0.2	
24255	6:44:15	82.0	75.6	77.2	225.2	2.54	0.2	
24270	6:44:30	82.5	75.6	77.3	230.5	2.57	0.1	
24285	6:44:45	82.2	75.6	77.3	232.1	2.58	0.1	
24300	6:45:00	81.7	75.7	77.4	232.7	2.57	0.1	
24315	6:45:15	81.5	75.7	77.3	232.7	2.57	0.1	
24330	6:45:30	81.7	75.8	77.4	232.7	2.57	0.1	
24345	6:45:45	81.5	75.8	77.4	232.7	2.57	0.1	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
24360	6:46:00	81.3	75.8	77.4	232.7	2.57	0.1	Start Low CO/CO2 Bias OUT
24375	6:46:15	81.9	75.8	77.4	232.7	2.57	0.1	
24390	6:46:30	81.8	75.9	77.4	232.7	2.57	0.1	
24405	6:46:45	82.3	75.9	77.5	232.7	2.57	0.1	
24420	6:47:00	82.0	75.8	77.4	232.7	2.57	0.1	
24435	6:47:15	81.9	75.9	77.5	232.7	2.57	0.1	
24450	6:47:30	81.6	75.9	77.5	232.7	2.57	0.1	
24465	6:47:45	81.8	76.0	77.6	232.7	2.57	0.1	
24480	6:48:00	81.9	76.0	77.5	232.7	2.57	0.1	
24495	6:48:15	81.8	76.1	77.6	232.7	2.57	0.1	
24510	6:48:30	81.2	76.1	77.6	232.7	2.57	0.1	
24525	6:48:45	81.0	76.1	77.6	232.7	2.57	0.1	
24540	6:49:00	80.8	76.2	77.7	232.7	2.57	0.1	
24555	6:49:15	81.0	76.2	77.7	232.7	2.57	0.1	
24570	6:49:30	81.6	76.3	77.8	232.7	2.57	0.1	
24585	6:49:45	81.2	76.2	77.8	232.7	2.57	0.1	
24600	6:50:00	81.2	76.4	77.8	232.7	2.57	0.1	
24615	6:50:15	81.6	76.4	77.8	232.7	2.57	0.1	
24630	6:50:30	81.5	76.4	77.9	232.7	2.57	0.1	
24645	6:50:45	81.2	76.4	77.9	232.7	2.57	0.1	
24660	6:51:00	81.3	76.4	77.9	232.7	2.57	0.1	System Low CO/CO2 OUT
24675	6:51:15	81.4	76.6	78.0	232.7	2.57	0.1	
24690	6:51:30	81.9	76.6	78.0	232.7	2.57	0.1	
24705	6:51:45	82.2	76.6	78.0	163.4	2.32	0.1	
24720	6:52:00	81.7	76.5	78.0	16.3	0.18	0.1	
24735	6:52:15	81.8	76.5	78.0	0.0	0.05	0.1	
24750	6:52:30	81.9	76.5	77.9	0.0	0.01	6.8	
24765	6:52:45	81.7	76.5	78.0	0.0	0.01	13.6	
24780	6:53:00	82.0	76.5	78.0	0.0	0.01	13.7	
24795	6:53:15	82.2	76.5	78.0	0.0	0.01	13.9	
24810	6:53:30	82.2	76.6	77.9	0.0	0.01	14.0	Start Mid NOx Bias OUT
24825	6:53:45	82.0	76.6	78.0	0.0	0.01	14.1	
24840	6:54:00	82.4	76.6	78.0	0.0	0.01	14.1	
24855	6:54:15	81.6	76.6	78.0	0.0	0.01	14.1	
24870	6:54:30	81.8	76.7	78.1	0.0	0.01	14.1	
24885	6:54:45	81.0	76.7	78.1	0.0	0.01	14.1	
24900	6:55:00	81.1	76.7	78.1	0.0	0.01	14.1	
24915	6:55:15	81.5	76.7	78.0	0.0	0.02	14.1	
24930	6:55:30	81.6	76.8	78.1	0.0	0.02	14.1	
24945	6:55:45	81.2	76.8	78.2	0.0	0.02	14.1	
24960	6:56:00	80.8	76.8	78.2	0.0	0.02	14.2	
24975	6:56:15	80.5	76.9	78.2	0.0	0.02	14.2	
24990	6:56:30	81.0	76.9	78.3	0.0	0.02	14.2	
25005	6:56:45	80.7	76.9	78.2	0.0	0.02	14.2	
25020	6:57:00	80.8	76.9	78.3	0.0	0.02	14.2	
25035	6:57:15	80.9	76.9	78.2	0.0	0.02	14.2	
25050	6:57:30	80.8	77.0	78.3	0.0	0.03	14.1	
25065	6:57:45	81.0	76.9	78.2	0.0	0.03	14.1	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 23, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
25080	6:58:00	81.0	77.0	78.3	0.0	0.03	14.1	
25095	6:58:15	80.9	77.0	78.3	0.0	0.03	14.1	
25110	6:58:30	81.4	77.0	78.3	0.0	0.03	14.1	
25125	6:58:45	81.1	77.0	78.4	0.0	0.03	14.1	
25140	6:59:00	81.0	77.0	78.3	0.0	0.03	14.2	System Mid NOx OUT
25155	6:59:15	80.9	77.0	78.4	0.0	0.03	14.2	
25170	6:59:30	81.2	77.0	78.4	0.0	0.04	14.2	
25185	6:59:45	81.2	77.1	78.4	0.0	0.04	14.2	
25200	7:00:00	81.6	77.1	78.4	0.0	0.04	14.2	
25215	7:00:15	81.5	77.1	78.4	0.0	0.04	7.7	
25230	7:00:30	81.5	77.1	78.4	0.0	0.04	0.8	
25245	7:00:45	81.4	77.1	78.4	0.0	0.04	0.4	
25260	7:01:00	81.3	77.1	78.5	0.0	0.04	5.5	
25275	7:01:15	81.4	77.1	78.4	0.0	0.04	6.1	
25290	7:01:30	81.6	77.1	78.5	0.0	0.05	6.7	
25305	7:01:45	81.5	77.1	78.4	0.0	0.05	6.7	
25320	7:02:00	81.3	77.3	78.1	0.0	0.05	6.7	Start Low NOx Bias OUT
25335	7:02:15	81.4	75.2	74.1	0.0	0.05	6.7	
25350	7:02:30	81.5	72.2	72.5	0.0	0.05	6.7	
25365	7:02:45	81.4	73.3	71.3	0.0	0.05	6.7	
25380	7:03:00	81.6	73.4	70.7	0.0	0.05	6.7	
25395	7:03:15	81.9	71.5	70.5	0.0	0.06	6.7	
25410	7:03:30	82.1	69.5	70.2	0.0	0.06	6.7	
25425	7:03:45	82.2	68.4	70.8	0.0	0.06	6.7	
25440	7:04:00	82.0	67.7	71.4	0.0	0.06	6.7	
25455	7:04:15	82.3	67.8	70.5	0.0	0.06	6.7	
25470	7:04:30	82.3	68.3	69.6	0.0	0.06	6.7	
25485	7:04:45	82.2	68.6	69.8	0.0	0.06	6.7	
25500	7:05:00	82.8	69.0	71.0	0.0	0.07	6.7	
25515	7:05:15	82.3	68.8	71.3	0.0	0.07	6.8	
25530	7:05:30	82.5	69.3	70.5	0.0	0.07	6.8	
25545	7:05:45	82.5	69.7	70.2	0.0	0.07	6.8	
25560	7:06:00	82.2	69.5	70.0	0.0	0.08	6.8	
25575	7:06:15	81.7	69.3	69.7	0.0	0.08	6.7	
25590	7:06:30	81.8	69.2	69.5	0.0	0.08	6.7	
25605	7:06:45	81.6	69.0	69.8	0.0	0.08	6.7	
25620	7:07:00	81.6	68.9	70.0	0.0	0.08	6.7	System Low NOx OUT
25635	7:07:15	81.9	69.0	70.0	0.0	0.08	6.7	
25650	7:07:30	82.2	69.1	70.1	0.0	0.08	6.7	
25665	7:07:45	82.8	69.1	70.0	0.0	0.09	6.7	
Average		= 80.9						

APPENDIX D

Test Results for:

SSB512

Low Run#: 1

Date: June 24, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Minimum Rate

Input Rate = 97,600 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	82.5	81.8	°F
Relative Humidity	38	38	%
Barometer	29.07	29.07	in.Hg
Heating Value	1091	1091	BTU/ft ³
Inlet Pressure	7.4	7.4	in.w.c.
Manifold Pressure	0.1	0.1	in.w.c.
Gas Meter Reading	5817.56	5865.17	ft ³
Gas Temperature	81.0	81.0	°F
Water Meter Reading	695609.5	695780.0	gal

Mass	1395.5	lb
Di	8.185	lb/gal
Dn	8.143	lb/gal

Tin	148.0	°F
Tdel	179.3	°F

Calculations		
Test Start	4:50:00	h:mm:ss
Test End	5:20:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	98,570	BTU/hr
Cf	1.102	no units
Ho	43,593	BTU
Uncorrected Volume	47.61	ft ³
Pressure Correction	0.987	no units
Meter Correction	1.000	no units
Temperature Correction	0.961	no units
F	45.17	ft ³
C	7.2	%
P	3.5	ppm

N = 2.9 ng/J
5.0 ppm @ 3% O₂

Date: June 24, 2015

Low Run#: 1

Manufacturer: RIELLO
Model No.: SSB 512
Serial No.: NONE

Analytic Ranges

NOx = 30 ppm
CO2 = 10 %
CO = 1000 ppm

Pretest Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)	
NOx Zero	0	0.00			0.00	0.03			-0.10
NOx Low	6.95	6.90			0.17	6.54			1.37
NOx Mid	14.56	14.51			0.17	13.77			2.63
NOx High	26.66	26.71			-0.17				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24
CO2 Mid	5.007		5.01		-0.03		5.00		0.07
CO2 High	9.488		9.50		-0.12				
CO Zero	0			0	0.00			0	0.00
CO Low	249.0			239	0.99			235	1.42
CO Mid	502.5			499	0.31			491	1.11
CO High	976			975	0.07				

Post Test Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)	System Drift (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)		
NOx Zero	0	0.00			0.00	0.13			-0.43	0.33
NOx Low	6.95	6.66			0.97	6.52			1.43	-0.07
NOx Mid	14.56	14.09			1.57	13.77			2.63	0.00
NOx High	26.66	26.13			1.77					
CO2 Zero	0		0.00		0.00		0.00		0.00	0.00
CO2 Low	2.594		2.56		0.34		2.57		0.24	0.00
CO2 Mid	5.007		5.00		0.07		4.99		0.17	-0.10
CO2 High	9.488		9.49		-0.02					
CO Zero	0			0	0.00			0.0	0.00	0.00
CO Low	249.0			236	1.30			226	2.28	-0.86
CO Mid	502.5			489	1.34			481	2.19	-1.08
CO High	976			960	1.58					

Calibration Linearity

NOx Pretest	0.258
CO2 Pretest	0.033
CO Pretest	0.273

NOx Post Test	0.602
CO2 Post Test	0.081
CO Post Test	0.520

Gas Cylinders

Cylinder #	Concentration
EB0018049	Low NOX = 6.95 ppm
CC100400	Mid NOX = 14.56 ppm
CC267435	High NOX = 26.66 ppm
CC129082	CO2 Low = 2.594 %
	CO Low = 249 ppm
CC25693	CO2 Mid = 5.007 %
	CO Mid = 502.5 ppm
CC353963	CO2 High = 9.488 %
	CO High = 976 ppm

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	76.5	69.5	70.3	0.0	0.00	0.0	
15	0:00:15	76.6	69.5	70.3	0.0	0.00	0.0	
30	0:00:30	76.2	69.4	70.3	0.0	0.00	0.0	
45	0:00:45	76.2	69.4	70.3	0.0	0.00	0.0	
60	0:01:00	76.0	69.4	70.3	0.0	0.00	0.0	Start Zero IN
75	0:01:15	76.3	69.4	70.3	0.0	0.00	0.0	
90	0:01:30	76.8	69.4	70.3	0.0	0.00	0.0	
105	0:01:45	77.0	69.4	70.3	0.0	0.00	0.0	
120	0:02:00	77.1	69.4	70.3	0.0	0.00	0.0	
135	0:02:15	77.3	69.4	70.2	0.0	0.00	0.0	
150	0:02:30	77.5	69.4	70.2	0.0	0.00	0.0	
165	0:02:45	77.0	69.4	70.2	0.0	0.00	0.0	
180	0:03:00	76.3	69.4	70.2	0.0	0.00	0.0	
195	0:03:15	76.3	69.3	70.2	0.0	0.00	0.0	
210	0:03:30	76.7	69.3	70.1	0.0	0.00	0.0	
225	0:03:45	76.4	69.4	70.2	0.0	0.00	0.0	
240	0:04:00	75.9	69.3	70.2	0.0	0.00	0.0	
255	0:04:15	76.2	69.3	70.1	0.0	0.00	0.0	
270	0:04:30	76.0	69.3	70.1	0.0	0.00	0.0	
285	0:04:45	75.5	69.3	70.1	0.0	0.00	0.0	
300	0:05:00	75.4	69.3	70.1	0.0	0.00	0.0	
315	0:05:15	74.9	69.4	70.2	0.0	0.00	0.0	
330	0:05:30	75.2	69.3	70.1	0.0	0.00	0.0	
345	0:05:45	75.6	69.4	70.2	0.0	0.00	0.0	
360	0:06:00	76.1	69.3	71.5	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	76.2	69.4	73.2	0.0	0.00	0.0	
390	0:06:30	76.3	69.4	80.5	3.7	0.00	0.0	
405	0:06:45	75.4	70.4	98.4	735.1	8.29	0.0	
420	0:07:00	75.2	71.8	113.5	952.6	9.35	12.3	
435	0:07:15	75.6	77.5	116.0	968.9	9.42	25.6	
450	0:07:30	75.8	86.2	114.2	973.2	9.44	26.5	
465	0:07:45	75.6	92.8	112.3	974.8	9.44	26.6	
480	0:08:00	75.5	95.3	110.8	1050.4	9.44	26.7	
495	0:08:15	75.6	95.6	110.3	976.4	10.40	26.7	
510	0:08:30	75.3	95.4	111.7	975.3	9.49	26.7	
525	0:08:45	75.4	95.1	114.9	975.8	9.49	26.7	
540	0:09:00	75.5	95.1	118.8	975.3	9.49	26.7	Start High Span IN
555	0:09:15	75.0	96.2	122.5	975.8	9.49	26.7	
570	0:09:30	75.3	98.0	125.3	975.4	9.49	26.7	
585	0:09:45	75.3	100.1	126.8	975.8	9.49	26.7	
600	0:10:00	75.1	102.2	127.0	975.8	9.49	26.7	
615	0:10:15	75.0	103.8	126.0	975.3	9.50	26.8	
630	0:10:30	75.3	104.8	125.1	975.8	9.50	26.8	
645	0:10:45	75.3	105.2	120.3	975.8	9.50	26.7	
660	0:11:00	75.4	104.9	112.7	975.8	9.50	26.7	
675	0:11:15	76.1	104.0	106.3	975.8	9.50	26.7	
690	0:11:30	76.2	101.0	104.4	975.8	9.50	26.7	
705	0:11:45	76.3	97.3	104.3	975.8	9.50	26.7	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	76.1	94.4	104.6	975.8	9.50	26.7	
735	0:12:15	76.4	93.0	105.0	975.8	9.50	26.7	
750	0:12:30	76.7	92.5	105.1	975.8	9.50	26.7	
765	0:12:45	76.3	92.3	104.7	975.8	9.50	26.7	
780	0:13:00	76.4	92.3	103.0	975.3	9.50	26.7	
795	0:13:15	76.3	92.2	100.5	975.3	9.50	26.7	
810	0:13:30	76.3	91.7	98.7	975.3	9.50	26.7	
825	0:13:45	76.2	90.6	96.9	975.3	9.50	26.7	
840	0:14:00	76.6	89.4	95.1	975.3	9.50	26.7	Analyzer High Span IN
855	0:14:15	76.7	88.3	94.1	974.8	9.49	26.7	
870	0:14:30	76.6	87.1	93.4	974.2	9.49	26.7	
885	0:14:45	76.5	86.1	93.0	621.5	5.61	26.7	
900	0:15:00	76.7	85.4	92.5	512.2	5.05	19.8	
915	0:15:15	76.6	84.9	91.7	503.7	5.01	13.7	
930	0:15:30	76.4	84.4	90.9	501.0	5.01	14.4	
945	0:15:45	76.3	84.0	89.9	500.5	5.01	14.5	
960	0:16:00	76.5	83.5	88.9	499.9	5.01	14.5	
975	0:16:15	76.5	83.0	88.0	499.9	5.01	14.5	
990	0:16:30	76.5	82.3	87.2	499.9	5.01	14.5	
1005	0:16:45	77.1	81.7	86.4	499.9	5.01	14.5	
1020	0:17:00	76.8	81.2	85.9	499.9	5.01	14.5	Start Mid Span IN
1035	0:17:15	76.5	80.6	85.2	499.9	5.01	14.5	
1050	0:17:30	76.9	80.1	84.7	499.4	5.01	14.5	
1065	0:17:45	77.4	79.8	84.2	499.9	5.01	14.5	
1080	0:18:00	77.5	79.3	83.6	499.9	5.01	14.5	
1095	0:18:15	77.5	79.0	83.1	499.9	5.01	14.5	
1110	0:18:30	77.6	78.6	82.5	499.7	5.00	14.5	
1125	0:18:45	77.3	78.3	82.0	499.4	5.01	14.5	
1140	0:19:00	77.3	77.9	81.5	499.4	5.01	14.5	
1155	0:19:15	77.2	77.5	81.0	499.4	5.01	14.5	
1170	0:19:30	77.0	77.2	80.6	499.4	5.01	14.5	
1185	0:19:45	76.8	76.9	80.2	499.4	5.01	14.5	
1200	0:20:00	76.7	76.6	79.8	499.4	5.01	14.5	
1215	0:20:15	76.3	76.2	79.5	499.4	5.01	14.5	
1230	0:20:30	76.1	76.0	79.1	499.5	5.01	14.5	
1245	0:20:45	76.2	75.8	78.7	499.4	5.01	14.5	
1260	0:21:00	76.0	75.5	78.4	499.4	5.01	14.5	
1275	0:21:15	76.1	75.3	78.0	499.4	5.01	14.5	
1290	0:21:30	76.1	75.0	77.7	499.4	5.01	14.5	
1305	0:21:45	76.2	74.7	77.3	499.4	5.01	14.5	
1320	0:22:00	76.8	74.5	77.0	499.4	5.01	14.5	Analyzer Mid Span IN
1335	0:22:15	77.0	74.2	76.7	499.4	5.01	14.5	
1350	0:22:30	77.2	74.0	76.4	499.4	5.00	14.5	
1365	0:22:45	76.8	73.8	76.2	498.9	5.00	14.1	
1380	0:23:00	76.5	73.6	76.0	497.3	5.00	14.1	
1395	0:23:15	76.9	73.4	75.7	286.5	2.75	14.4	
1410	0:23:30	76.9	73.2	75.4	246.6	2.59	14.7	
1425	0:23:45	76.7	73.0	75.2	241.8	2.57	6.5	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	76.6	72.8	74.9	240.2	2.57	6.6	
1455	0:24:15	76.4	72.7	74.8	239.6	2.57	6.8	
1470	0:24:30	76.1	72.5	74.5	239.6	2.57	6.9	
1485	0:24:45	76.3	72.4	74.3	239.6	2.57	6.9	
1500	0:25:00	76.6	72.2	74.1	239.6	2.57	6.9	Start Low Span IN
1515	0:25:15	76.7	72.1	74.0	239.6	2.57	6.9	
1530	0:25:30	76.8	72.0	73.8	239.6	2.57	6.9	
1545	0:25:45	76.8	71.9	73.6	239.6	2.57	6.9	
1560	0:26:00	77.1	71.8	73.5	239.6	2.57	6.9	
1575	0:26:15	76.6	71.6	73.3	239.6	2.57	6.9	
1590	0:26:30	76.0	71.6	73.2	239.6	2.57	6.9	
1605	0:26:45	76.3	71.5	73.1	239.6	2.57	6.9	
1620	0:27:00	75.9	71.3	72.9	239.6	2.57	6.9	
1635	0:27:15	76.0	71.2	72.7	239.6	2.57	6.9	
1650	0:27:30	76.3	71.2	72.6	239.6	2.57	6.9	
1665	0:27:45	76.5	71.0	72.5	239.6	2.57	6.9	
1680	0:28:00	76.4	70.9	72.3	239.1	2.57	6.9	
1695	0:28:15	76.5	70.8	72.2	239.6	2.57	6.9	
1710	0:28:30	76.5	70.7	72.1	239.6	2.57	6.9	
1725	0:28:45	76.7	70.6	72.0	239.6	2.57	6.9	
1740	0:29:00	76.8	70.5	71.9	239.6	2.57	6.9	
1755	0:29:15	76.6	70.4	71.7	239.1	2.57	6.9	
1770	0:29:30	76.3	70.2	71.6	239.1	2.57	6.9	
1785	0:29:45	76.8	70.2	71.6	239.1	2.57	6.9	
1800	0:30:00	76.9	70.2	71.5	239.1	2.57	6.9	Analyzer Low Span IN
1815	0:30:15	76.4	70.0	71.3	239.6	2.57	6.9	
1830	0:30:30	76.6	70.0	71.2	239.6	2.57	6.9	
1845	0:30:45	76.9	70.0	71.2	239.6	2.57	6.9	
1860	0:31:00	77.2	69.8	71.0	239.6	2.57	6.9	
1875	0:31:15	77.5	69.7	70.9	239.1	2.56	6.8	
1890	0:31:30	77.6	69.6	70.8	234.1	2.58	6.7	
1905	0:31:45	77.9	69.6	70.8	50.3	0.43	7.3	
1920	0:32:00	77.7	69.5	70.7	3.8	0.03	3.8	
1935	0:32:15	78.2	69.5	70.6	0.0	0.00	0.3	
1950	0:32:30	78.1	69.4	70.5	0.0	0.00	0.1	
1965	0:32:45	77.5	69.4	70.4	0.0	0.00	0.1	
1980	0:33:00	77.1	69.3	70.4	0.0	0.00	0.1	Start Zero Bias IN
1995	0:33:15	76.8	69.2	70.3	0.0	0.00	0.1	
2010	0:33:30	76.3	69.2	70.3	0.0	0.00	0.1	
2025	0:33:45	76.4	69.2	70.3	0.0	0.00	0.1	
2040	0:34:00	76.7	69.1	70.2	0.0	0.00	0.1	
2055	0:34:15	77.5	69.2	70.2	0.0	0.00	0.1	
2070	0:34:30	77.7	69.1	70.1	0.0	0.00	0.1	
2085	0:34:45	77.8	69.0	70.0	0.0	0.00	0.0	
2100	0:35:00	77.8	69.0	70.0	0.0	0.00	0.0	
2115	0:35:15	77.8	69.0	70.0	0.0	0.00	0.0	
2130	0:35:30	78.6	69.0	69.9	0.0	0.00	0.0	
2145	0:35:45	78.5	69.0	70.0	0.0	0.00	0.0	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	77.7	68.9	69.8	0.0	0.00	0.0	
2175	0:36:15	77.0	68.8	69.8	0.0	0.00	0.0	
2190	0:36:30	76.8	68.9	69.7	0.0	0.00	0.0	
2205	0:36:45	76.6	68.9	69.7	0.0	0.00	0.0	
2220	0:37:00	76.7	68.9	69.8	0.0	0.00	0.0	
2235	0:37:15	77.3	68.9	69.8	0.0	0.00	0.0	
2250	0:37:30	77.2	68.9	69.7	0.0	0.00	0.0	
2265	0:37:45	76.9	68.9	69.7	0.0	0.00	0.0	
2280	0:38:00	77.0	68.8	69.7	0.0	0.00	0.0	System Zero IN
2295	0:38:15	76.9	68.7	69.6	0.0	0.00	0.0	
2310	0:38:30	76.9	68.7	69.5	0.0	0.00	0.0	
2325	0:38:45	76.5	68.7	69.5	0.0	0.00	0.0	
2340	0:39:00	77.1	68.7	69.5	0.0	0.00	0.0	
2355	0:39:15	77.5	68.7	69.5	0.0	0.00	0.0	
2370	0:39:30	77.2	68.6	69.4	0.0	0.00	0.0	
2385	0:39:45	77.2	68.6	69.4	0.0	0.00	0.0	
2400	0:40:00	77.8	68.6	69.4	0.0	0.00	0.0	
2415	0:40:15	77.8	68.6	69.4	92.8	0.32	0.1	
2430	0:40:30	76.9	68.6	69.3	432.5	4.75	0.1	
2445	0:40:45	76.6	68.5	69.4	480.2	4.92	0.1	
2460	0:41:00	76.6	68.6	69.3	487.2	4.97	0.0	
2475	0:41:15	76.8	68.6	69.3	489.8	4.98	0.0	
2490	0:41:30	76.8	68.6	69.4	481.0	4.93	0.0	
2505	0:41:45	76.7	68.5	69.3	457.9	4.66	0.0	
2520	0:42:00	76.5	68.5	69.3	443.9	4.49	0.0	
2535	0:42:15	76.6	68.6	69.4	432.3	4.38	0.1	
2550	0:42:30	76.4	68.5	69.3	422.8	4.29	0.1	
2565	0:42:45	76.5	68.6	69.2	415.8	4.22	0.1	
2580	0:43:00	76.7	68.5	69.2	409.4	4.16	0.1	Start Mid CO/CO2 Bias IN
2595	0:43:15	76.7	68.5	69.3	415.3	4.12	0.1	
2610	0:43:30	76.5	68.5	69.2	478.6	4.89	0.1	
2625	0:43:45	76.9	68.5	69.2	487.2	4.98	0.0	
2640	0:44:00	76.8	68.5	69.2	490.3	4.99	0.0	
2655	0:44:15	76.8	68.5	69.2	491.1	4.99	0.0	
2670	0:44:30	76.8	68.5	69.2	491.4	4.99	0.0	
2685	0:44:45	76.9	68.5	69.2	491.4	4.99	0.0	
2700	0:45:00	76.9	68.5	69.2	491.4	5.00	0.0	
2715	0:45:15	76.7	68.4	69.2	491.4	5.00	0.0	
2730	0:45:30	76.3	68.5	69.1	491.4	5.00	0.0	
2745	0:45:45	76.4	68.4	69.2	491.4	5.00	0.0	
2760	0:46:00	77.3	68.4	69.1	491.4	5.00	0.0	
2775	0:46:15	78.0	68.4	69.2	491.4	5.00	0.0	
2790	0:46:30	77.6	68.3	69.1	491.4	5.00	0.0	
2805	0:46:45	77.9	68.3	69.1	491.4	5.00	0.0	
2820	0:47:00	77.7	68.3	69.1	491.4	5.00	0.0	
2835	0:47:15	77.9	68.3	69.0	491.4	5.00	0.0	
2850	0:47:30	78.2	68.3	69.0	491.4	5.00	0.0	
2865	0:47:45	77.8	68.3	69.0	491.4	5.00	0.0	

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Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	78.3	68.3	69.0	491.4	5.00	0.0	System Mid CO/CO2 IN
2895	0:48:15	78.2	68.3	69.0	491.9	5.00	0.0	
2910	0:48:30	78.6	68.2	69.0	491.4	5.00	0.0	
2925	0:48:45	78.8	68.2	69.0	491.7	5.00	0.0	
2940	0:49:00	78.6	68.4	69.1	491.9	5.00	0.0	
2955	0:49:15	77.5	68.4	69.1	491.4	5.00	0.0	
2970	0:49:30	76.9	68.4	69.0	491.4	5.00	0.0	
2985	0:49:45	76.9	68.4	69.0	491.4	5.00	0.0	
3000	0:50:00	76.5	68.4	69.1	491.4	5.00	0.0	
3015	0:50:15	76.9	68.5	69.1	491.9	5.00	0.0	
3030	0:50:30	76.8	68.5	69.1	491.4	5.00	0.0	Start Low CO/CO2 Bias IN
3045	0:50:45	76.7	68.4	69.1	141.4	1.19	0.0	
3060	0:51:00	76.7	68.4	69.0	199.7	2.33	0.1	
3075	0:51:15	76.8	68.4	69.1	229.0	2.55	0.1	
3090	0:51:30	76.8	68.4	69.0	233.2	2.57	0.0	
3105	0:51:45	76.4	68.3	69.0	234.8	2.57	0.0	
3120	0:52:00	76.6	68.4	69.1	235.4	2.57	0.0	
3135	0:52:15	77.1	68.3	69.0	235.4	2.57	0.0	
3150	0:52:30	77.4	68.3	69.1	235.4	2.57	0.0	
3165	0:52:45	77.1	68.4	69.0	235.4	2.57	0.0	
3180	0:53:00	77.1	68.2	69.0	235.4	2.57	0.0	System Low CO/CO2 IN
3195	0:53:15	77.1	68.3	68.9	235.4	2.57	0.0	
3210	0:53:30	77.0	68.3	69.0	235.4	2.57	0.0	
3225	0:53:45	77.0	68.3	69.0	235.4	2.57	0.0	
3240	0:54:00	76.9	68.3	69.0	235.4	2.57	0.0	
3255	0:54:15	76.8	68.3	69.1	235.1	2.57	0.0	
3270	0:54:30	76.8	68.3	69.0	235.4	2.57	0.0	
3285	0:54:45	76.8	68.4	69.0	235.4	2.57	0.0	
3300	0:55:00	77.1	68.3	69.0	234.8	2.57	0.0	
3315	0:55:15	77.3	68.3	69.0	234.8	2.57	0.0	
3330	0:55:30	77.2	68.2	69.0	234.8	2.57	0.0	Start Mid NOx Bias IN
3345	0:55:45	77.1	68.3	69.0	234.8	2.57	0.0	
3360	0:56:00	77.1	68.3	69.0	234.8	2.57	0.0	
3375	0:56:15	77.3	68.3	68.9	234.8	2.57	0.0	
3390	0:56:30	78.2	68.2	68.9	234.8	2.57	0.0	
3405	0:56:45	78.2	68.2	68.9	234.8	2.57	0.0	
3420	0:57:00	77.9	68.2	68.9	234.8	2.57	0.0	
3435	0:57:15	77.8	68.2	68.8	205.9	2.55	0.0	
3450	0:57:30	77.4	68.2	68.8	28.0	0.22	0.0	
3465	0:57:45	77.0	68.2	68.9	0.6	0.04	0.1	
3480	0:58:00	77.5	68.2	68.8	0.0	0.01	6.7	
3495	0:58:15	77.2	68.1	68.8	0.0	0.00	13.7	
3510	0:58:30	77.1	68.2	68.9	0.0	0.00	14.0	
3525	0:58:45	76.7	68.2	68.9	0.0	0.00	14.1	
3540	0:59:00	76.6	68.2	68.8	0.0	0.00	14.1	
3555	0:59:15	76.5	68.2	68.8	0.0	0.00	14.1	
3570	0:59:30	77.1	68.2	68.9	0.0	0.00	14.1	
3585	0:59:45	77.6	68.2	68.8	0.0	0.00	14.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	77.5	68.2	68.9	0.0	0.00	14.1	
3615	1:00:15	77.4	68.3	68.9	0.0	0.00	14.1	
3630	1:00:30	78.3	68.3	68.9	0.0	0.00	14.1	
3645	1:00:45	78.6	68.3	68.9	0.0	0.00	14.2	
3660	1:01:00	78.2	68.4	68.9	0.0	0.00	14.2	
3675	1:01:15	78.4	68.4	69.0	0.0	0.00	14.1	
3690	1:01:30	78.8	68.5	69.0	0.0	0.00	14.1	
3705	1:01:45	78.8	68.5	69.0	0.0	0.00	14.2	
3720	1:02:00	78.9	68.6	69.1	0.0	0.00	14.1	
3735	1:02:15	79.1	68.5	69.1	0.0	0.00	13.9	
3750	1:02:30	79.0	68.5	69.1	0.0	0.00	13.7	
3765	1:02:45	78.9	68.5	69.0	0.0	0.00	13.7	
3780	1:03:00	78.8	68.4	69.1	0.0	0.00	13.8	
3795	1:03:15	78.0	68.4	69.0	0.0	0.00	13.8	
3810	1:03:30	77.3	68.4	69.0	0.0	0.00	13.8	
3825	1:03:45	77.2	68.4	69.0	0.0	0.00	13.8	
3840	1:04:00	77.1	68.3	68.9	0.0	0.00	13.8	System Mid NOx IN
3855	1:04:15	77.1	68.3	68.9	0.0	0.00	13.8	
3870	1:04:30	77.6	68.3	68.9	0.0	0.00	13.8	
3885	1:04:45	77.5	68.2	68.9	0.0	0.00	13.8	
3900	1:05:00	77.6	68.3	68.9	0.0	0.00	13.8	
3915	1:05:15	77.5	68.2	68.8	0.0	0.03	10.8	
3930	1:05:30	77.3	68.2	68.9	0.0	0.04	8.0	
3945	1:05:45	77.5	68.2	68.8	0.0	0.00	0.4	
3960	1:06:00	77.8	68.2	68.9	0.0	0.00	3.5	
3975	1:06:15	78.0	68.3	68.9	0.0	0.00	6.6	
3990	1:06:30	78.0	68.2	68.8	0.0	0.00	6.7	
4005	1:06:45	77.7	68.2	68.8	0.0	0.00	6.7	
4020	1:07:00	77.2	68.2	68.8	0.0	0.00	6.7	Start Low NOx Bias IN
4035	1:07:15	77.1	68.2	68.9	0.0	0.00	6.7	
4050	1:07:30	76.9	68.3	68.8	0.0	0.00	6.7	
4065	1:07:45	76.7	68.1	68.8	0.0	0.00	6.7	
4080	1:08:00	76.7	68.2	68.8	0.0	0.00	6.7	
4095	1:08:15	76.5	68.3	68.9	0.0	0.00	6.7	
4110	1:08:30	77.0	68.3	68.9	0.0	0.00	6.7	
4125	1:08:45	76.8	68.4	68.9	0.0	0.00	6.7	
4140	1:09:00	77.1	68.4	69.0	0.0	0.00	6.7	
4155	1:09:15	78.1	68.4	69.0	0.0	0.00	6.7	
4170	1:09:30	78.6	68.3	68.9	0.0	0.00	6.7	
4185	1:09:45	78.0	68.4	69.0	0.0	0.00	6.7	
4200	1:10:00	78.0	68.3	69.0	0.0	0.00	6.7	
4215	1:10:15	78.0	68.3	68.9	0.0	0.00	6.7	
4230	1:10:30	77.9	68.2	68.9	0.0	0.00	6.7	
4245	1:10:45	78.0	68.3	68.9	0.0	0.00	6.7	
4260	1:11:00	78.2	68.2	68.8	0.0	0.00	6.7	
4275	1:11:15	78.7	68.2	68.9	0.0	0.00	6.6	
4290	1:11:30	79.3	68.2	68.9	0.0	0.00	6.5	
4305	1:11:45	79.5	68.1	68.9	0.0	0.00	6.5	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
4320	1:12:00	78.9	68.1	68.8	0.0	0.00	6.5	System Low NOx IN
4335	1:12:15	79.4	68.1	68.8	0.0	0.00	6.5	
4350	1:12:30	79.3	68.2	68.8	0.0	0.00	6.5	
4365	1:12:45	79.3	68.1	68.8	0.0	0.00	6.6	
4380	1:13:00	78.4	68.1	68.8	0.0	0.00	6.5	
4395	1:13:15	78.1	68.1	68.8	0.0	0.03	6.3	
4410	1:13:30	78.5	68.2	68.8	0.0	0.06	6.0	
4425	1:13:45	77.7	68.2	68.8	0.0	0.06	0.3	
4440	1:14:00	77.7	68.1	68.8	0.0	0.06	1.8	
4455	1:14:15	77.3	68.1	68.8	0.0	0.06	1.8	
4470	1:14:30	77.1	68.1	68.8	0.0	0.06	0.3	
4485	1:14:45	77.6	68.0	68.7	0.0	0.07	0.3	
4500	1:15:00	77.9	68.0	68.7	0.0	0.05	0.3	
4515	1:15:15	77.5	68.1	68.8	0.0	0.04	0.2	
4530	1:15:30	77.5	68.1	68.7	0.0	0.04	0.2	
4545	1:15:45	77.8	68.2	68.8	0.0	0.04	0.2	
4560	1:16:00	78.5	68.2	68.8	0.0	0.04	0.2	
4575	1:16:15	78.6	68.3	68.9	0.0	0.04	0.2	
4590	1:16:30	78.1	68.2	68.9	0.0	0.05	0.2	
4605	1:16:45	77.6	68.3	68.9	0.0	0.04	0.2	
4620	1:17:00	77.3	68.3	68.9	0.0	0.05	0.2	
4635	1:17:15	77.4	68.3	69.0	0.0	0.05	0.2	
4650	1:17:30	77.4	68.4	69.0	0.0	0.05	0.2	
4665	1:17:45	77.4	68.4	69.0	0.0	0.04	0.2	
4680	1:18:00	77.4	68.4	69.0	0.0	0.04	0.2	
4695	1:18:15	77.4	68.4	69.0	0.0	0.04	0.2	
4710	1:18:30	77.5	68.4	69.0	0.0	0.04	0.2	
4725	1:18:45	77.9	68.4	69.0	0.0	0.04	0.2	
4740	1:19:00	77.7	68.4	69.0	0.0	0.04	0.2	
4755	1:19:15	78.0	68.3	69.0	0.0	0.05	0.2	
4770	1:19:30	77.8	68.3	69.0	0.0	0.05	0.2	
4785	1:19:45	77.7	68.3	68.9	0.0	0.05	0.2	
4800	1:20:00	77.7	68.3	68.9	0.0	0.05	0.2	
4815	1:20:15	77.9	68.1	68.9	0.0	0.05	0.2	
4830	1:20:30	77.5	68.2	68.8	0.0	0.05	0.2	
4845	1:20:45	76.9	68.2	68.9	0.0	0.05	0.2	
4860	1:21:00	76.9	68.2	68.8	0.0	0.05	0.2	
4875	1:21:15	77.0	68.1	68.8	0.0	0.05	0.2	
4890	1:21:30	77.5	68.2	68.9	0.0	0.05	0.2	
4905	1:21:45	78.1	68.3	68.9	0.0	0.05	0.2	
4920	1:22:00	78.6	68.3	68.9	0.0	0.05	0.2	
4935	1:22:15	78.3	68.3	68.9	0.0	0.05	0.2	
4950	1:22:30	78.0	68.2	69.0	0.0	0.05	0.2	
4965	1:22:45	77.8	68.3	68.9	0.0	0.05	0.2	
4980	1:23:00	77.8	68.2	68.9	0.0	0.05	0.2	
4995	1:23:15	77.7	68.2	68.9	0.0	0.05	0.2	
5010	1:23:30	77.7	68.2	68.9	0.0	0.05	0.2	
5025	1:23:45	77.2	68.2	68.9	0.0	0.05	0.2	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5040	1:24:00	77.5	68.2	69.2	0.0	0.05	0.2
5055	1:24:15	77.5	68.3	68.9	0.0	0.05	0.2
5070	1:24:30	77.3	68.3	69.0	0.0	0.04	0.2
5085	1:24:45	77.0	68.3	69.0	0.0	0.04	0.2
5100	1:25:00	76.8	68.4	69.0	0.0	0.04	0.2
5115	1:25:15	77.1	68.4	69.0	0.0	0.05	0.2
5130	1:25:30	77.3	68.5	69.1	0.0	0.05	0.2
5145	1:25:45	77.2	68.6	69.1	0.0	0.05	0.2
5160	1:26:00	77.2	68.6	69.1	0.0	0.05	0.2
5175	1:26:15	77.4	68.6	69.0	0.0	0.05	0.2
5190	1:26:30	77.6	68.6	69.1	0.0	0.05	0.2
5205	1:26:45	77.6	68.6	69.1	0.0	0.05	0.2
5220	1:27:00	77.5	68.6	69.1	0.0	0.05	0.2
5235	1:27:15	77.5	68.5	69.1	0.0	0.04	0.2
5250	1:27:30	77.5	68.5	69.1	0.0	0.04	0.2
5265	1:27:45	77.8	68.5	69.1	0.0	0.04	0.2
5280	1:28:00	77.6	68.5	69.1	0.0	0.04	0.2
5295	1:28:15	77.8	68.5	69.1	0.0	0.04	0.2
5310	1:28:30	77.7	68.4	69.1	0.0	0.04	0.2
5325	1:28:45	77.9	68.5	69.2	0.0	0.05	0.2
5340	1:29:00	78.0	68.6	69.2	0.0	0.04	0.2
5355	1:29:15	78.0	68.5	69.2	0.0	0.04	0.2
5370	1:29:30	77.7	68.6	69.2	0.0	0.04	0.2
5385	1:29:45	77.7	68.6	69.2	0.0	0.04	0.1
5400	1:30:00	77.5	68.7	69.2	0.0	0.04	0.1
5415	1:30:15	77.5	68.6	69.2	0.0	0.04	0.1
5430	1:30:30	77.6	68.6	69.2	0.0	0.04	0.1
5445	1:30:45	77.8	68.6	69.2	0.0	0.04	0.1
5460	1:31:00	77.6	68.7	69.2	0.0	0.04	0.1
5475	1:31:15	77.5	68.6	69.2	0.0	0.04	0.1
5490	1:31:30	77.7	68.6	69.3	0.0	0.05	0.1
5505	1:31:45	77.7	68.7	69.3	0.0	0.05	0.2
5520	1:32:00	77.7	68.7	69.3	0.0	0.05	0.2
5535	1:32:15	77.7	68.7	69.3	0.0	0.04	0.2
5550	1:32:30	77.5	68.7	69.3	0.0	0.04	0.2
5565	1:32:45	77.5	68.7	69.4	0.0	0.05	0.1
5580	1:33:00	77.6	68.7	69.3	0.0	0.05	0.1
5595	1:33:15	77.6	68.7	69.3	0.0	0.05	0.1
5610	1:33:30	77.5	68.7	69.4	0.0	0.05	0.1
5625	1:33:45	77.2	68.8	69.3	0.0	0.04	0.1
5640	1:34:00	77.2	68.8	69.4	0.0	0.04	0.1
5655	1:34:15	77.4	68.8	69.4	0.0	0.04	0.1
5670	1:34:30	77.2	68.8	69.3	0.0	0.04	0.1
5685	1:34:45	77.1	68.8	69.4	0.0	0.05	0.1
5700	1:35:00	77.6	68.8	71.9	0.0	0.05	0.2
13440	3:44:00	81.6	70.0	70.8	0.0	0.06	0.2
13455	3:44:15	81.2	70.0	71.5	79.4	0.09	0.2
13470	3:44:30	81.3	70.0	71.9	110.4	0.20	0.2

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
13485	3:44:45	81.3	70.3	71.8	293.6	0.55	0.9
13500	3:45:00	81.2	70.5	71.9	35.8	0.08	0.9
13515	3:45:15	81.2	70.7	71.9	177.7	0.43	0.5
13530	3:45:30	81.4	70.8	82.4	729.8	0.10	0.2
13545	3:45:45	81.5	70.8	101.8	1050.2	7.87	0.2
13560	3:46:00	81.5	73.8	112.0	226.4	8.16	3.6
13575	3:46:15	81.8	82.9	113.5	36.5	8.14	6.9
13590	3:46:30	81.7	91.8	114.0	10.8	8.12	6.7
13605	3:46:45	81.2	96.2	114.0	3.8	8.14	7.0
13620	3:47:00	80.8	98.4	112.8	0.0	8.33	7.1
13635	3:47:15	81.6	99.2	112.3	0.0	7.98	6.9
13650	3:47:30	81.7	99.3	113.8	0.0	7.69	6.6
13665	3:47:45	81.6	99.2	116.9	0.0	7.56	5.0
13680	3:48:00	81.8	99.8	120.0	0.0	7.43	4.7
13695	3:48:15	81.7	101.3	123.0	0.0	7.31	4.0
13710	3:48:30	81.0	103.3	125.7	0.0	7.28	3.6
13725	3:48:45	81.0	105.2	127.3	0.0	7.28	3.5
13740	3:49:00	80.7	107.2	128.3	0.0	7.27	3.5
13755	3:49:15	81.1	108.9	129.3	0.0	7.30	3.5
13770	3:49:30	81.1	110.0	130.6	0.0	7.33	3.5
13785	3:49:45	81.1	110.8	132.2	0.0	7.35	3.6
13800	3:50:00	81.5	111.8	133.9	0.0	7.35	3.6
13815	3:50:15	82.2	112.8	135.5	0.0	7.37	3.7
13830	3:50:30	82.1	113.9	137.1	0.0	7.38	3.7
13845	3:50:45	82.3	115.0	138.6	0.0	7.39	3.7
13860	3:51:00	82.6	116.3	139.9	0.0	7.41	3.8
13875	3:51:15	82.3	117.5	141.1	0.0	7.42	3.9
13890	3:51:30	81.9	118.5	142.3	0.0	7.42	3.9
13905	3:51:45	81.8	119.5	143.3	0.0	7.41	3.9
13920	3:52:00	81.7	120.4	144.5	0.0	7.23	3.9
13935	3:52:15	81.4	121.3	146.3	0.0	7.25	3.6
13950	3:52:30	81.2	122.2	149.2	0.0	7.34	3.3
13965	3:52:45	81.2	123.3	152.2	0.0	8.36	3.6
13980	3:53:00	81.1	124.9	154.1	0.0	8.49	6.4
13995	3:53:15	81.1	126.8	155.5	0.0	8.51	9.9
14010	3:53:30	81.1	128.5	156.8	0.0	8.53	10.5
14025	3:53:45	81.1	129.8	158.1	0.0	8.54	11.4
14040	3:54:00	81.2	131.1	159.3	0.0	8.54	11.7
14055	3:54:15	81.5	132.0	160.7	0.0	8.54	12.2
14070	3:54:30	81.6	133.0	162.3	0.0	8.55	12.3
14085	3:54:45	81.7	134.0	164.0	0.0	8.55	12.7
14100	3:55:00	81.8	135.1	165.9	0.0	8.56	12.9
14115	3:55:15	81.8	136.2	167.7	0.0	8.58	13.2
14130	3:55:30	81.7	137.5	168.5	0.0	8.55	13.4
14145	3:55:45	81.6	138.8	169.3	0.0	8.24	13.8
14160	3:56:00	81.3	139.7	170.4	0.0	8.23	12.0
14175	3:56:15	81.3	140.4	171.5	0.0	8.24	10.0
14190	3:56:30	81.6	141.2	172.7	0.0	8.25	10.0

Comments

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
14205	3:56:45	81.4	142.1	173.7	0.0	8.25	10.1
14220	3:57:00	81.4	142.9	174.7	0.0	8.11	10.0
14235	3:57:15	81.4	143.7	175.4	0.0	8.07	9.4
14250	3:57:30	81.2	144.5	176.4	0.0	8.04	8.9
14265	3:57:45	81.0	145.0	177.3	0.0	8.02	8.3
14280	3:58:00	81.1	145.6	177.8	0.0	8.00	8.2
14295	3:58:15	81.1	146.4	178.9	0.0	8.01	8.0
14310	3:58:30	81.4	146.8	179.3	0.0	8.02	7.9
14325	3:58:45	81.4	147.4	179.6	0.0	7.93	8.0
14340	3:59:00	81.6	148.0	180.4	0.0	7.93	7.7
14355	3:59:15	81.6	148.5	180.3	0.0	7.94	7.4
14370	3:59:30	82.0	142.2	179.6	0.0	7.91	7.4
14385	3:59:45	82.8	142.1	179.6	0.0	7.92	7.2
14400	4:00:00	83.4	141.7	180.3	0.0	7.94	7.2
14415	4:00:15	83.9	141.5	181.0	0.0	7.95	7.3
14430	4:00:30	83.6	141.7	180.3	0.0	7.96	7.5
14445	4:00:45	83.9	142.0	178.9	0.0	7.96	7.4
14460	4:01:00	83.3	142.0	178.2	0.0	7.97	7.4
14475	4:01:15	83.1	141.3	177.5	0.0	7.98	7.5
14490	4:01:30	82.8	140.8	176.9	0.0	8.01	7.5
14505	4:01:45	82.8	140.3	176.7	0.0	8.01	7.6
14520	4:02:00	82.7	139.8	176.5	0.0	8.00	7.6
14535	4:02:15	82.9	139.5	176.5	0.0	7.99	7.6
14550	4:02:30	82.9	139.4	176.4	0.0	8.00	7.5
14565	4:02:45	83.3	139.4	176.0	0.0	8.00	7.5
14580	4:03:00	83.3	139.3	175.5	0.0	8.01	7.6
14595	4:03:15	83.5	139.1	175.3	0.0	8.03	7.6
14610	4:03:30	83.6	138.9	175.2	0.0	8.01	7.7
14625	4:03:45	83.5	138.6	174.7	0.0	8.03	7.6
14640	4:04:00	83.3	138.5	174.3	0.0	7.89	7.7
14655	4:04:15	82.8	138.2	174.1	0.0	7.84	7.2
14670	4:04:30	82.7	138.0	173.9	0.0	7.84	6.7
14685	4:04:45	82.1	137.8	169.0	0.0	7.85	6.6
14700	4:05:00	82.2	137.3	154.6	28.8	3.32	6.6
14715	4:05:15	82.0	135.7	153.0	973.7	0.44	4.2
14730	4:05:30	81.9	129.6	159.3	1050.2	8.00	1.8
14745	4:05:45	82.1	125.9	162.7	1050.2	7.31	19.6
14760	4:06:00	82.0	127.2	163.8	599.0	7.14	13.6
14775	4:06:15	82.1	129.0	163.6	139.0	7.14	6.0
14790	4:06:30	82.5	130.1	161.7	45.7	7.16	4.6
14805	4:06:45	82.5	130.4	158.6	20.8	7.15	4.1
14820	4:07:00	82.5	129.8	157.0	11.2	7.17	3.9
14835	4:07:15	82.4	128.3	157.0	5.4	7.23	3.8
14850	4:07:30	82.4	129.4	157.9	1.7	7.37	3.7
14865	4:07:45	82.0	130.7	158.7	0.0	7.39	4.1
14880	4:08:00	82.4	131.1	159.4	0.0	7.40	4.2
14895	4:08:15	83.0	131.7	159.4	0.0	7.40	4.2
14910	4:08:30	82.4	132.2	159.1	0.0	7.40	4.2

Comments

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
14925	4:08:45	81.8	132.4	159.5	0.0	7.38	4.2
14940	4:09:00	82.0	132.3	160.0	0.0	7.38	4.1
14955	4:09:15	82.5	132.5	160.3	0.0	7.38	4.1
14970	4:09:30	82.3	132.7	160.8	0.0	7.41	4.1
14985	4:09:45	82.0	132.9	161.3	0.0	7.39	4.2
15000	4:10:00	82.3	133.2	161.0	67.9	7.40	4.1
15015	4:10:15	82.8	133.5	159.9	1050.1	7.60	4.1
15030	4:10:30	82.8	133.7	160.4	1050.1	7.37	4.2
15045	4:10:45	84.0	133.3	161.2	416.5	7.27	9.9
15060	4:11:00	84.3	133.1	161.3	102.3	7.27	7.2
15075	4:11:15	84.8	133.4	161.6	33.1	7.27	4.4
15090	4:11:30	84.8	133.8	161.5	15.5	7.26	4.1
15105	4:11:45	85.2	133.9	161.6	7.5	7.27	3.9
15120	4:12:00	85.5	134.0	161.7	2.2	7.26	3.9
15135	4:12:15	85.5	134.0	161.6	0.0	7.26	3.8
15150	4:12:30	85.8	134.0	161.7	0.0	7.26	3.7
15165	4:12:45	84.8	134.1	161.8	0.0	7.26	3.7
15180	4:13:00	83.8	134.0	161.9	0.0	7.27	3.7
15195	4:13:15	83.4	134.2	162.1	0.0	7.26	3.7
15210	4:13:30	84.2	134.2	162.4	0.0	7.25	3.6
15225	4:13:45	83.7	134.4	162.3	0.0	7.25	3.6
15240	4:14:00	84.2	134.6	162.5	0.0	7.24	3.6
15255	4:14:15	83.2	134.6	162.6	0.0	7.23	3.5
15270	4:14:30	82.8	134.6	162.6	0.0	7.24	3.5
15285	4:14:45	83.5	134.7	162.6	0.0	7.23	3.6
15300	4:15:00	84.2	134.7	162.7	0.0	7.25	3.5
15315	4:15:15	84.6	134.9	162.8	0.0	7.25	3.5
15330	4:15:30	84.7	134.8	162.8	0.0	7.25	3.6
15345	4:15:45	84.5	134.9	162.9	0.0	7.26	3.6
15360	4:16:00	84.0	134.9	163.0	0.0	7.27	3.6
15375	4:16:15	84.4	135.0	163.1	0.0	7.22	3.6
15390	4:16:30	85.0	135.2	163.2	0.0	7.24	3.5
15405	4:16:45	86.0	135.3	163.3	0.0	7.24	3.5
15420	4:17:00	86.0	135.3	163.3	0.0	7.24	3.5
15435	4:17:15	85.8	135.4	163.3	0.0	7.27	3.6
15450	4:17:30	85.9	135.4	163.3	0.0	7.26	3.6
15465	4:17:45	86.0	135.5	163.3	0.0	7.26	3.8
15480	4:18:00	86.0	135.4	163.5	0.0	7.29	3.7
15495	4:18:15	86.6	135.5	163.8	0.0	7.31	3.7
15510	4:18:30	86.4	135.5	163.7	0.0	7.33	3.8
15525	4:18:45	86.3	135.7	163.7	0.0	7.32	3.9
15540	4:19:00	85.2	135.8	163.8	0.0	7.32	4.1
15555	4:19:15	84.3	135.7	163.8	0.0	7.31	4.2
15570	4:19:30	84.7	135.8	163.9	0.0	7.31	4.2
15585	4:19:45	84.1	135.8	163.9	0.0	7.31	4.1
15600	4:20:00	83.2	135.9	164.1	0.0	7.30	4.1
15615	4:20:15	83.3	136.1	164.4	0.0	7.29	4.0
15630	4:20:30	83.4	136.0	164.3	0.0	7.28	4.0

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
15645	4:20:45	83.7	136.2	164.4	0.0	7.29	3.9
15660	4:21:00	84.2	136.2	164.6	0.0	7.29	3.9
15675	4:21:15	84.2	136.2	164.6	0.0	7.29	3.9
15690	4:21:30	84.3	136.8	164.7	0.0	7.29	3.9
15705	4:21:45	83.6	137.4	165.0	0.0	7.30	3.9
15720	4:22:00	83.1	137.5	165.2	0.0	7.34	3.9
15735	4:22:15	82.8	137.7	165.2	0.0	7.37	4.0
15750	4:22:30	82.9	137.9	165.5	0.0	7.38	4.1
15765	4:22:45	82.9	138.1	165.9	0.0	7.38	4.2
15780	4:23:00	82.9	138.2	166.4	0.0	7.37	4.2
15795	4:23:15	83.3	138.5	166.5	0.0	7.38	4.2
15810	4:23:30	83.0	138.7	166.9	0.0	7.38	4.2
15825	4:23:45	82.4	138.9	167.1	0.0	7.38	4.2
15840	4:24:00	82.3	139.0	167.3	0.0	7.38	4.2
15855	4:24:15	82.6	139.3	167.4	0.0	7.38	4.2
15870	4:24:30	82.9	139.4	167.6	0.0	7.38	4.2
15885	4:24:45	83.2	139.6	167.9	0.0	7.38	4.2
15900	4:25:00	83.4	139.7	168.1	0.0	7.38	4.2
15915	4:25:15	83.0	139.9	168.3	0.0	7.38	4.2
15930	4:25:30	82.2	140.0	168.5	0.0	7.38	4.2
15945	4:25:45	82.5	140.3	168.8	0.0	7.38	4.2
15960	4:26:00	82.7	140.3	168.9	0.0	7.39	4.2
15975	4:26:15	82.9	140.5	169.1	0.0	7.39	4.2
15990	4:26:30	83.7	140.6	169.2	0.0	7.38	4.2
16005	4:26:45	83.6	140.8	169.4	0.0	7.38	4.2
16020	4:27:00	83.9	140.9	169.6	0.0	7.39	4.2
16035	4:27:15	83.3	141.3	169.8	0.0	7.37	4.2
16050	4:27:30	83.1	142.1	170.0	0.0	7.37	4.2
16065	4:27:45	83.0	142.3	170.3	0.0	7.40	4.1
16080	4:28:00	83.0	142.5	170.6	0.0	7.40	4.2
16095	4:28:15	82.8	142.8	170.7	0.0	7.39	4.2
16110	4:28:30	83.2	143.0	170.9	0.0	7.38	4.2
16125	4:28:45	83.1	143.2	171.3	0.0	7.37	4.2
16140	4:29:00	83.4	143.3	171.7	0.0	7.37	4.1
16155	4:29:15	82.9	143.5	171.9	0.0	7.36	4.1
16170	4:29:30	82.3	143.7	172.1	0.0	7.37	4.1
16185	4:29:45	82.4	144.0	172.5	0.0	7.36	4.1
16200	4:30:00	82.5	144.2	172.6	0.0	7.37	4.1
16215	4:30:15	82.3	144.4	173.0	0.0	7.37	4.1
16230	4:30:30	82.9	144.6	173.1	0.0	7.37	4.1
16245	4:30:45	83.4	144.8	173.6	0.0	7.38	4.1
16260	4:31:00	83.5	144.8	173.7	0.0	7.37	4.1
16275	4:31:15	83.1	145.1	174.0	0.0	7.37	4.1
16290	4:31:30	82.5	145.3	174.2	0.0	7.36	4.1
16305	4:31:45	82.5	145.5	174.5	0.0	7.35	4.1
16320	4:32:00	82.4	145.8	174.9	0.0	7.36	4.0
16335	4:32:15	82.2	146.0	175.1	0.0	7.36	4.0
16350	4:32:30	81.8	146.1	175.1	0.0	7.35	4.0

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
16365	4:32:45	81.5	146.3	175.4	0.0	7.35	4.0	
16380	4:33:00	81.8	146.5	175.6	0.0	7.36	4.0	
16395	4:33:15	82.0	146.7	175.9	0.0	7.36	4.0	
16410	4:33:30	82.0	146.9	176.2	0.0	7.36	4.0	
16425	4:33:45	82.3	147.2	176.4	0.0	7.37	4.0	
16440	4:34:00	82.3	147.2	176.6	0.0	7.36	4.0	
16455	4:34:15	82.2	147.4	176.8	0.0	7.36	4.0	
16470	4:34:30	82.2	147.5	177.0	0.0	7.36	4.0	
16485	4:34:45	82.5	147.8	177.3	0.0	7.37	4.0	
16500	4:35:00	82.5	147.7	177.5	0.0	7.37	4.0	
16515	4:35:15	82.3	148.0	177.6	0.0	7.37	4.0	
16530	4:35:30	82.5	148.0	177.8	0.0	7.37	4.0	
16545	4:35:45	82.2	148.1	178.1	0.0	7.37	4.0	
16560	4:36:00	81.9	148.2	178.1	0.0	7.37	4.1	
16575	4:36:15	81.5	148.4	178.3	0.0	7.37	4.0	
16590	4:36:30	81.7	148.6	178.4	0.0	7.36	4.0	
16605	4:36:45	81.7	148.6	178.8	0.0	7.36	4.0	
16620	4:37:00	82.4	148.9	178.7	0.0	7.37	4.0	
16635	4:37:15	82.3	149.1	179.0	0.0	7.36	4.0	
16650	4:37:30	82.1	149.2	179.2	0.0	7.36	4.0	
16665	4:37:45	82.3	149.3	179.3	0.0	7.36	4.0	
16680	4:38:00	82.5	149.5	179.4	0.0	7.37	4.0	
16695	4:38:15	82.3	149.5	179.5	0.0	7.37	4.0	
16710	4:38:30	82.5	149.5	179.6	0.0	7.36	4.0	
16725	4:38:45	82.2	148.6	179.4	0.0	7.37	4.0	
16740	4:39:00	82.3	148.5	179.6	0.0	7.37	4.0	
16755	4:39:15	82.4	148.4	179.6	0.0	7.37	4.0	
16770	4:39:30	82.2	148.4	179.9	0.0	7.37	4.0	
16785	4:39:45	82.2	148.3	180.0	0.0	7.38	4.0	
16800	4:40:00	81.6	148.6	179.6	0.0	7.37	4.1	
16815	4:40:15	81.8	148.6	179.4	0.0	7.37	4.1	
16830	4:40:30	81.6	148.4	179.4	0.0	7.38	4.0	
16845	4:40:45	82.1	148.4	179.2	0.0	7.37	4.1	
16860	4:41:00	82.3	148.3	179.1	0.0	7.37	4.0	
16875	4:41:15	82.0	148.1	179.2	0.0	7.38	4.0	
16890	4:41:30	82.0	148.0	179.1	0.0	7.38	4.0	
16905	4:41:45	82.3	148.1	179.1	0.0	7.37	4.1	
16920	4:42:00	82.5	148.0	179.0	0.0	7.37	4.1	
16935	4:42:15	82.5	148.0	178.9	0.0	7.38	4.1	
16950	4:42:30	82.6	147.8	178.8	0.0	7.38	4.0	
16965	4:42:45	82.4	147.8	178.6	0.0	7.38	4.1	
16980	4:43:00	82.5	147.8	178.7	0.0	7.38	4.1	
16995	4:43:15	82.5	147.6	178.6	0.0	7.39	4.1	
17010	4:43:30	82.6	147.7	178.6	0.0	7.39	4.1	
17025	4:43:45	82.4	148.1	178.7	0.0	7.39	4.1	
17040	4:44:00	82.7	148.2	178.6	0.0	7.39	4.1	Start Low Fire Equilibrium - #1
17055	4:44:15	82.7	148.3	178.7	0.0	7.39	4.1	
17070	4:44:30	82.8	148.2	178.8	0.0	7.41	4.0	

Manufacturer: RIELLO
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Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17085	4:44:45	82.6	148.3	178.7	0.0	7.41	4.1	
17100	4:45:00	83.1	148.3	178.8	0.0	7.41	4.1	
17115	4:45:15	82.8	148.4	178.9	0.0	7.42	4.2	
17130	4:45:30	82.9	148.3	179.0	0.0	7.40	4.2	
17145	4:45:45	82.5	148.4	179.2	0.0	7.41	4.1	
17160	4:46:00	82.3	148.6	179.1	0.0	7.41	4.1	
17175	4:46:15	82.1	148.6	179.4	0.0	7.40	4.2	
17190	4:46:30	82.1	148.6	179.3	0.0	7.42	4.2	
17205	4:46:45	81.8	148.7	179.4	0.0	7.42	4.2	
17220	4:47:00	81.6	148.9	179.5	0.0	7.41	4.2	
17235	4:47:15	81.6	148.9	179.6	0.0	7.40	4.1	
17250	4:47:30	81.9	149.0	179.6	0.0	7.40	4.1	
17265	4:47:45	82.1	149.1	179.8	0.0	7.40	4.1	
17280	4:48:00	81.8	149.0	179.7	0.0	7.41	4.2	
17295	4:48:15	81.9	149.2	179.8	0.0	7.41	4.2	
17310	4:48:30	82.2	149.2	179.9	0.0	7.41	4.1	
17325	4:48:45	82.3	149.1	180.1	0.0	7.40	4.2	
17340	4:49:00	82.3	149.3	180.2	0.0	7.42	4.2	End Low Fire Equilibrium - #1
17355	4:49:15	82.2	149.4	180.0	0.0	7.41	4.2	
17370	4:49:30	81.8	149.3	180.2	0.0	7.41	4.2	
17385	4:49:45	82.2	149.4	180.2	0.0	7.41	4.2	
17400	4:50:00	82.5	149.5	180.3	0.0	7.41	4.2	Start Test - Low Fire - #1
17415	4:50:15	82.1	149.4	180.4	0.0	7.41	4.2	
17430	4:50:30	82.4	149.6	180.4	0.0	7.42	4.2	
17445	4:50:45	82.3	149.5	180.5	0.0	7.41	4.2	
17460	4:51:00	82.1	149.3	180.3	0.0	7.41	4.2	
17475	4:51:15	82.1	149.3	180.5	0.0	7.41	4.2	
17490	4:51:30	82.2	149.3	180.5	0.0	7.41	4.2	
17505	4:51:45	82.1	149.4	180.7	0.0	7.40	4.1	
17520	4:52:00	82.3	149.4	180.6	0.0	7.41	4.1	
17535	4:52:15	82.3	149.3	180.6	0.0	7.41	4.1	
17550	4:52:30	82.0	149.1	180.5	0.0	7.41	4.1	
17565	4:52:45	82.3	148.4	180.5	0.0	7.42	4.1	
17580	4:53:00	82.6	148.2	180.4	0.0	7.42	4.2	
17595	4:53:15	82.6	148.2	180.4	0.0	7.42	4.2	
17610	4:53:30	82.3	148.2	180.3	0.0	7.41	4.2	
17625	4:53:45	82.4	148.1	180.2	0.0	7.41	4.1	
17640	4:54:00	82.1	148.2	180.0	0.0	7.42	4.1	
17655	4:54:15	81.8	148.2	179.8	0.0	7.42	4.2	
17670	4:54:30	81.8	148.1	179.4	0.0	7.42	4.2	
17685	4:54:45	82.1	147.9	179.4	0.0	7.42	4.2	
17700	4:55:00	82.5	147.7	179.2	0.0	7.42	4.2	
17715	4:55:15	82.2	147.6	179.3	0.0	7.43	4.2	
17730	4:55:30	82.2	147.5	179.1	0.0	7.42	4.3	
17745	4:55:45	82.2	147.4	178.5	0.0	7.41	4.5	
17760	4:56:00	82.6	147.3	178.6	0.0	7.28	4.4	
17775	4:56:15	82.8	147.0	178.2	0.0	7.26	4.0	
17790	4:56:30	82.5	146.5	178.3	0.0	7.27	3.9	

Manufacturer: RIELLO
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Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
17805	4:56:45	82.6	146.2	178.8	0.0	7.27	4.2
17820	4:57:00	82.3	145.8	178.5	0.0	7.27	4.3
17835	4:57:15	82.2	145.7	178.4	0.0	7.27	4.4
17850	4:57:30	82.3	145.6	178.3	0.0	7.26	4.4
17865	4:57:45	82.3	145.5	178.6	0.0	7.24	3.9
17880	4:58:00	82.6	145.3	178.1	0.0	7.41	3.9
17895	4:58:15	82.4	145.4	178.2	0.0	7.43	4.2
17910	4:58:30	82.1	145.6	178.9	0.0	7.43	4.4
17925	4:58:45	81.8	145.6	178.7	0.0	7.43	4.4
17940	4:59:00	81.8	145.7	178.5	0.0	7.43	4.4
17955	4:59:15	82.1	145.5	178.3	0.0	7.43	4.4
17970	4:59:30	81.9	145.6	178.3	0.0	7.42	4.4
17985	4:59:45	82.5	145.3	178.4	0.0	7.43	4.3
18000	5:00:00	82.6	145.2	178.2	0.0	7.42	4.4
18015	5:00:15	82.3	145.3	178.4	0.0	7.42	4.3
18030	5:00:30	82.4	145.8	178.4	0.0	7.44	4.3
18045	5:00:45	82.3	145.8	178.5	0.0	7.44	4.4
18060	5:01:00	82.3	145.9	178.6	0.0	7.44	4.4
18075	5:01:15	82.5	145.9	178.5	0.0	7.44	4.4
18090	5:01:30	82.3	145.9	178.5	0.0	7.44	4.3
18105	5:01:45	82.2	145.9	178.6	0.0	7.44	4.3
18120	5:02:00	82.2	145.8	178.6	0.0	7.44	4.4
18135	5:02:15	82.3	145.9	178.6	0.0	7.44	4.4
18150	5:02:30	82.5	145.9	178.5	0.0	7.44	4.3
18165	5:02:45	82.7	146.0	178.7	0.0	7.44	4.3
18180	5:03:00	82.6	146.0	178.8	0.0	7.44	4.4
18195	5:03:15	82.5	145.9	178.7	0.0	7.43	4.3
18210	5:03:30	82.1	146.4	178.7	0.0	7.37	4.3
18225	5:03:45	82.1	146.5	179.0	0.0	7.37	4.1
18240	5:04:00	82.6	146.7	179.0	0.0	7.36	4.1
18255	5:04:15	82.6	146.6	178.9	0.0	7.37	4.1
18270	5:04:30	82.3	146.7	178.1	0.0	7.38	4.1
18285	5:04:45	82.5	146.8	178.1	0.0	7.37	4.1
18300	5:05:00	82.6	146.8	178.2	0.0	7.37	4.1
18315	5:05:15	83.6	146.8	178.3	0.0	7.38	4.1
18330	5:05:30	83.1	147.0	178.1	0.0	7.37	4.1
18345	5:05:45	82.5	147.1	178.4	0.0	7.36	4.1
18360	5:06:00	82.1	147.1	178.4	0.0	7.37	4.1
18375	5:06:15	81.5	147.3	178.2	0.0	7.36	4.0
18390	5:06:30	81.6	147.4	178.2	0.0	7.28	4.0
18405	5:06:45	81.8	147.5	178.4	0.0	7.23	3.9
18420	5:07:00	82.0	147.4	178.3	0.0	7.22	3.8
18435	5:07:15	82.3	147.4	178.4	0.0	7.23	3.6
18450	5:07:30	82.3	147.3	178.5	0.0	7.24	3.6
18465	5:07:45	82.6	147.5	178.5	0.0	7.22	3.6
18480	5:08:00	82.5	147.4	178.4	0.0	7.24	3.6
18495	5:08:15	82.9	147.4	178.2	0.0	7.24	3.6
18510	5:08:30	82.5	147.5	178.2	0.0	7.25	3.6

Comments

Manufacturer: RIELLO
Model No.: SSB 512

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
18525	5:08:45	81.8	147.5	178.2	0.0	7.23	3.6	
18540	5:09:00	81.9	148.0	178.1	0.0	7.22	3.6	
18555	5:09:15	81.8	148.3	178.4	0.0	7.22	3.5	
18570	5:09:30	81.9	148.3	178.4	0.0	7.22	3.5	
18585	5:09:45	81.9	148.4	178.4	0.0	7.23	3.5	
18600	5:10:00	82.3	148.5	178.4	0.0	7.24	3.5	
18615	5:10:15	81.9	148.5	178.7	0.0	7.24	3.5	
18630	5:10:30	82.0	148.6	178.9	0.0	7.22	3.5	
18645	5:10:45	81.7	148.6	179.0	0.0	7.23	3.5	
18660	5:11:00	81.8	148.7	178.9	0.0	7.22	3.5	
18675	5:11:15	82.0	148.8	179.2	0.0	7.22	3.5	
18690	5:11:30	82.2	148.9	179.3	0.0	7.23	3.4	
18705	5:11:45	82.3	149.0	179.4	0.0	7.23	3.5	
18720	5:12:00	82.0	149.2	179.4	0.0	7.22	3.5	
18735	5:12:15	81.8	149.2	179.6	0.0	7.21	3.5	
18750	5:12:30	82.3	149.2	179.7	0.0	7.22	3.5	
18765	5:12:45	82.3	149.4	179.7	0.0	7.24	3.5	
18780	5:13:00	82.1	149.3	179.8	0.0	7.23	3.5	
18795	5:13:15	81.9	149.4	180.1	0.0	7.23	3.5	
18810	5:13:30	81.9	149.5	179.9	0.0	7.22	3.5	
18825	5:13:45	81.5	149.6	180.0	0.0	7.22	3.5	
18840	5:14:00	82.0	149.6	180.1	0.0	7.22	3.4	
18855	5:14:15	82.3	149.7	180.1	0.0	7.22	3.4	
18870	5:14:30	82.1	149.6	180.2	0.0	7.23	3.4	
18885	5:14:45	82.2	149.7	180.3	0.0	7.22	3.5	
18900	5:15:00	82.0	149.7	180.2	0.0	7.23	3.4	
18915	5:15:15	82.1	149.7	180.2	0.0	7.24	3.5	
18930	5:15:30	82.3	149.6	180.3	0.0	7.23	3.5	
18945	5:15:45	82.5	149.7	180.3	0.0	7.24	3.5	
18960	5:16:00	82.0	149.8	180.5	0.0	7.24	3.5	
18975	5:16:15	82.0	149.8	180.6	0.0	7.22	3.4	
18990	5:16:30	82.1	149.9	180.7	0.0	7.22	3.4	
19005	5:16:45	82.3	150.0	180.7	0.0	7.23	3.4	
19020	5:17:00	82.0	150.0	180.8	0.0	7.23	3.5	Start Emissions
19035	5:17:15	82.1	150.1	180.9	0.0	7.22	3.5	
19050	5:17:30	82.1	150.1	180.8	0.0	7.22	3.5	
19065	5:17:45	82.4	150.1	180.8	0.0	7.22	3.4	
19080	5:18:00	82.6	150.1	180.8	0.0	7.22	3.4	1st Minute
19095	5:18:15	82.8	150.2	180.9	0.0	7.23	3.4	
19110	5:18:30	82.5	150.2	181.0	0.0	7.22	3.4	
19125	5:18:45	82.4	150.3	180.9	0.0	7.23	3.4	
19140	5:19:00	82.2	150.2	181.1	0.0	7.24	3.4	2nd Minute
19155	5:19:15	82.3	150.3	181.2	0.0	7.25	3.5	
19170	5:19:30	82.0	150.3	181.1	0.0	7.23	3.6	
19185	5:19:45	81.5	150.4	181.3	0.0	7.23	3.5	
19200	5:20:00	81.8	150.4	181.2	0.0	7.24	3.5	3rd Minute / EOT - Low Fire - #1
19215	5:20:15	82.2	150.4	181.3	0.0	7.24	3.5	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
19230	5:20:30	82.2	150.5	181.3	0.0	7.25	3.5	CO2 (Avg) % = 7.23
19245	5:20:45	81.9	150.5	181.3	0.0	7.25	3.5	
19260	5:21:00	82.2	150.5	181.3	0.0	7.23	3.5	NOx (Avg) ppm = 3.5
19275	5:21:15	82.3	150.5	181.5	0.0	7.25	3.5	
19290	5:21:30	82.4	150.7	181.4	0.0	7.24	3.4	CO (Max) ppm = 0.0
19305	5:21:45	82.5	150.6	181.5	0.0	7.24	3.5	
19320	5:22:00	82.5	150.7	181.7	0.0	7.23	3.5	Ambient (Avg) F = 82.2
19335	5:22:15	82.7	150.6	181.5	0.0	7.23	3.5	
19350	5:22:30	82.6	150.7	181.6	0.0	7.25	3.4	T_In (Avg) F = 148.0
19365	5:22:45	82.1	150.7	181.7	0.0	7.25	3.5	
19380	5:23:00	82.6	150.7	181.8	0.0	7.25	3.5	T_Del (Avg) F = 179.3
19395	5:23:15	82.8	150.8	181.8	0.0	7.25	3.5	
19410	5:23:30	82.7	150.9	181.7	0.0	7.25	3.5	
19425	5:23:45	82.7	150.9	181.8	0.0	7.26	3.5	
19440	5:24:00	82.7	150.9	181.7	0.0	7.26	3.5	
19455	5:24:15	82.9	150.9	181.8	0.0	7.25	3.5	
19470	5:24:30	82.7	150.9	181.9	0.0	7.26	3.5	
19485	5:24:45	83.0	150.9	182.0	0.0	7.25	3.5	
19500	5:25:00	82.9	151.0	182.0	0.0	7.23	3.5	
19515	5:25:15	82.2	151.1	182.0	0.0	7.25	3.5	
19530	5:25:30	82.3	151.1	182.1	0.0	7.23	3.5	
19545	5:25:45	82.4	151.1	182.2	0.0	7.25	3.5	
19560	5:26:00	82.6	151.2	182.3	0.0	7.23	3.5	
19575	5:26:15	82.8	151.3	182.2	0.0	7.25	3.5	
19590	5:26:30	82.4	151.2	182.2	0.0	7.24	3.5	
19605	5:26:45	82.2	151.2	182.3	0.0	7.24	3.5	
19620	5:27:00	82.8	151.3	182.4	0.0	7.23	3.5	
19635	5:27:15	82.5	151.4	182.1	0.0	7.23	3.5	
19650	5:27:30	82.1	150.8	180.1	8.6	6.39	3.5	
19665	5:27:45	82.0	150.5	181.2	0.0	0.36	3.5	
19680	5:28:00	82.3	150.3	176.8	0.0	0.15	2.1	
19695	5:28:15	81.8	149.9	173.2	0.0	0.11	0.8	
19710	5:28:30	82.1	146.8	169.8	0.0	0.09	0.7	
19725	5:28:45	81.8	131.5	166.2	0.0	0.09	0.7	
19740	5:29:00	81.8	114.9	163.2	0.0	0.08	0.7	
19755	5:29:15	82.3	102.0	160.3	0.0	0.08	0.7	
19770	5:29:30	82.7	93.3	158.5	0.0	0.09	0.7	
19785	5:29:45	82.7	87.8	157.0	0.0	0.09	0.7	
19800	5:30:00	83.0	83.7	156.0	0.0	0.09	0.7	
19815	5:30:15	82.2	80.9	155.2	0.0	0.10	0.7	
19830	5:30:30	81.9	78.9	154.6	0.0	0.09	0.7	
19845	5:30:45	81.6	77.5	154.2	0.0	0.09	0.6	
19860	5:31:00	82.3	76.3	153.8	0.0	0.09	0.6	
19875	5:31:15	82.3	75.4	153.5	0.0	0.09	0.6	
19890	5:31:30	82.2	74.6	153.2	0.0	0.08	0.6	
19905	5:31:45	82.2	74.0	152.9	0.0	0.08	0.5	
19920	5:32:00	82.6	73.6	152.7	0.0	0.08	0.5	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
19935	5:32:15	82.4	73.1	152.3	0.0	0.08	0.5
19950	5:32:30	82.6	72.7	151.7	0.0	0.08	0.5
19965	5:32:45	82.7	72.5	150.5	0.0	0.08	0.5
19980	5:33:00	82.8	72.2	147.9	0.0	0.07	0.5
19995	5:33:15	82.9	72.0	144.1	0.0	0.07	0.4
20010	5:33:30	82.9	71.8	139.7	0.0	0.07	0.4
20025	5:33:45	82.7	71.6	133.2	0.0	0.07	0.4
20040	5:34:00	82.7	71.4	127.8	0.0	0.06	0.4
20055	5:34:15	82.0	71.4	122.4	0.0	0.06	0.4
20070	5:34:30	81.9	71.4	117.7	0.0	0.06	0.4
20085	5:34:45	82.9	71.3	113.4	0.0	0.06	0.4
20100	5:35:00	83.1	71.3	109.2	0.0	0.06	0.4
20115	5:35:15	82.7	71.2	105.4	0.0	0.06	0.3
20130	5:35:30	82.6	71.1	100.7	0.0	0.06	0.3
20145	5:35:45	83.0	71.2	96.7	0.0	0.06	0.3
20160	5:36:00	82.7	71.0	93.3	0.0	0.06	0.3
20175	5:36:15	82.2	71.0	89.9	0.0	0.05	0.3
20190	5:36:30	81.5	70.9	87.2	0.0	0.05	0.3
20205	5:36:45	81.5	71.0	84.7	0.0	0.05	0.3
20220	5:37:00	81.7	70.9	82.7	0.0	0.05	0.3
20235	5:37:15	82.2	70.9	81.0	0.0	0.05	0.3
20250	5:37:30	81.8	70.9	79.7	0.0	0.05	0.3
20265	5:37:45	81.8	70.9	78.6	0.0	0.05	0.3
20280	5:38:00	82.0	71.0	77.7	0.0	0.05	0.2
20295	5:38:15	82.2	71.0	77.1	0.0	0.05	0.2
20310	5:38:30	82.5	70.9	76.4	0.0	0.05	0.2
20325	5:38:45	82.5	70.9	75.8	0.0	0.05	0.2
20340	5:39:00	82.6	70.8	75.4	0.0	0.05	0.2
20355	5:39:15	83.1	70.8	75.0	0.0	0.05	0.2
20370	5:39:30	82.7	70.8	74.7	0.0	0.05	0.2
20385	5:39:45	82.8	70.7	74.4	0.0	0.05	0.2
20400	5:40:00	82.7	70.7	74.2	0.0	0.05	0.2
20415	5:40:15	82.6	70.7	74.0	0.0	0.05	0.2
20430	5:40:30	82.4	70.5	73.5	0.0	0.05	0.2
20445	5:40:45	82.5	84.7	73.2	0.0	0.04	0.2
20460	5:41:00	82.4	78.3	73.0	0.0	0.04	0.2
20475	5:41:15	82.3	74.7	72.7	0.0	0.04	0.2
20490	5:41:30	82.4	73.4	72.4	0.0	0.05	0.3
20505	5:41:45	82.4	72.6	72.5	0.0	0.04	0.4
20520	5:42:00	82.2	72.2	78.7	0.0	0.05	0.3
20535	5:42:15	82.1	71.8	99.0	550.2	3.81	0.2
20550	5:42:30	82.2	73.3	126.4	78.0	8.18	0.2
20565	5:42:45	81.8	81.1	127.4	20.3	8.49	5.5
20580	5:43:00	82.2	95.1	102.5	25.6	2.35	8.0
20595	5:43:15	82.1	104.8	97.9	1050.1	1.14	5.5
20610	5:43:30	81.9	99.7	102.6	1050.1	7.86	0.5
20625	5:43:45	82.0	92.9	104.6	1050.1	7.12	19.1
20640	5:44:00	81.8	92.6	107.3	301.7	6.80	11.6

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
20655	5:44:15	81.6	93.7	112.8	93.6	6.94	3.1
20670	5:44:30	81.8	95.0	118.0	39.1	7.06	2.3
20685	5:44:45	81.8	97.6	119.9	25.1	7.10	2.6
20700	5:45:00	81.9	101.0	119.4	15.0	7.14	2.6
20715	5:45:15	82.3	103.3	119.7	1050.1	7.75	2.6
20730	5:45:30	82.5	104.4	120.9	1050.1	7.28	2.6
20745	5:45:45	82.3	104.6	120.0	1050.1	6.43	4.8
20760	5:46:00	82.4	105.4	120.4	1050.2	6.82	4.7
20775	5:46:15	82.3	105.6	115.2	1050.1	6.66	8.5
20790	5:46:30	82.4	105.6	109.8	1050.1	0.39	12.3
20805	5:46:45	82.5	104.1	107.0	536.2	0.72	3.9
20820	5:47:00	83.1	101.4	105.9	158.0	0.11	2.9
20835	5:47:15	83.3	98.8	106.2	63.1	0.10	1.4
20850	5:47:30	83.1	97.4	106.1	108.9	0.49	1.0
20865	5:47:45	82.7	96.7	106.2	33.7	0.09	0.7
20880	5:48:00	82.7	96.5	105.3	152.8	0.55	0.6
20895	5:48:15	82.7	96.2	103.9	106.7	0.08	0.6
20910	5:48:30	82.7	96.0	102.0	111.9	0.19	0.6
20925	5:48:45	82.8	95.3	100.3	18.1	0.06	1.1
20940	5:49:00	82.9	94.3	99.6	10.7	0.05	0.7
20955	5:49:15	82.8	93.1	98.9	232.8	0.56	0.4
20970	5:49:30	82.7	92.1	106.6	205.1	0.09	0.3
20985	5:49:45	82.6	91.6	128.5	466.4	7.12	0.4
21000	5:50:00	82.4	93.1	149.6	60.2	8.30	2.2
21015	5:50:15	82.1	101.6	163.7	28.3	8.54	6.9
21030	5:50:30	82.3	114.6	162.8	24.0	8.60	9.9
21045	5:50:45	82.6	126.1	144.6	1050.1	8.28	11.8
21060	5:51:00	82.7	132.3	130.7	1050.1	6.61	10.5
21075	5:51:15	82.9	128.3	125.9	877.8	6.74	5.9
21090	5:51:30	82.9	119.9	127.7	1050.1	7.11	2.7
21105	5:51:45	83.2	114.2	132.5	314.2	6.73	12.8
21120	5:52:00	83.2	112.3	138.5	1049.4	7.05	7.8
21135	5:52:15	82.9	113.4	136.9	1050.1	7.36	5.5
21150	5:52:30	82.5	116.0	130.2	1050.1	0.51	8.0
21165	5:52:45	82.2	117.5	124.8	409.2	0.15	3.9
21180	5:53:00	82.2	115.5	121.0	109.5	0.10	2.7
21195	5:53:15	82.1	112.2	118.2	38.2	0.08	1.3
21210	5:53:30	82.4	109.3	116.6	38.4	0.07	1.1
21225	5:53:45	82.7	106.9	116.2	64.2	0.06	0.9
21240	5:54:00	82.8	105.2	116.1	0.0	0.00	0.5
21255	5:54:15	82.8	104.2	115.3	0.0	0.00	0.1
21270	5:54:30	82.8	103.8	114.2	0.0	0.00	0.0
21285	5:54:45	83.1	103.3	112.6	0.0	0.00	0.0
21300	5:55:00	84.5	102.6	110.7	0.0	0.00	0.0
21315	5:55:15	85.0	101.6	108.9	0.0	0.00	0.0
21330	5:55:30	85.2	100.5	107.3	0.0	0.00	0.0
21345	5:55:45	85.4	99.2	106.0	0.0	0.00	0.0
21360	5:56:00	85.4	98.0	105.0	0.0	0.00	0.0

Comments

Start Zero OUT

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
21375	5:56:15	85.5	96.9	104.1	0.0	0.00	0.0	
21390	5:56:30	85.5	96.1	103.3	0.0	0.00	0.0	
21405	5:56:45	85.6	95.3	102.3	0.0	0.00	0.0	
21420	5:57:00	85.5	94.7	101.1	0.0	0.00	0.0	
21435	5:57:15	85.4	94.0	100.1	0.0	0.00	0.0	
21450	5:57:30	85.1	93.3	99.0	0.0	0.00	0.0	
21465	5:57:45	85.1	92.4	98.1	0.0	0.00	0.0	
21480	5:58:00	85.0	91.6	97.1	0.0	0.00	0.0	
21495	5:58:15	84.5	90.9	96.3	0.0	0.00	0.0	
21510	5:58:30	84.7	90.2	95.6	0.0	0.00	0.0	
21525	5:58:45	84.6	89.6	94.9	0.0	0.00	0.0	
21540	5:59:00	83.8	89.1	94.2	0.0	0.00	0.0	Analyzer Zero OUT
21555	5:59:15	84.2	88.5	93.4	0.0	0.00	0.0	
21570	5:59:30	84.2	87.9	92.6	476.6	3.67	0.0	
21585	5:59:45	84.9	87.3	91.8	907.3	9.26	0.0	
21600	6:00:00	84.1	86.7	91.1	948.5	9.44	12.5	
21615	6:00:15	83.6	86.1	90.4	954.9	9.47	25.3	
21630	6:00:30	83.8	83.3	89.7	957.3	9.47	25.6	
21645	6:00:45	83.8	82.3	89.5	958.1	9.48	25.7	
21660	6:01:00	83.7	81.7	89.2	958.6	9.48	25.7	
21675	6:01:15	83.6	81.4	87.9	958.6	9.49	25.8	
21690	6:01:30	83.3	81.2	86.5	958.6	9.49	25.8	
21705	6:01:45	83.6	80.6	85.9	959.1	9.49	25.8	
21720	6:02:00	83.5	79.9	88.2	959.1	9.49	25.8	Start High Span OUT
21735	6:02:15	83.0	79.5	108.0	959.1	9.49	25.8	
21750	6:02:30	82.9	80.3	130.1	959.1	9.49	25.8	
21765	6:02:45	82.9	87.7	141.9	959.1	9.49	25.9	
21780	6:03:00	83.1	98.4	147.3	959.3	9.49	25.9	
21795	6:03:15	83.1	106.7	149.0	959.7	9.49	26.0	
21810	6:03:30	83.3	111.6	150.2	959.1	9.49	26.0	
21825	6:03:45	84.4	114.2	152.5	959.1	9.49	26.1	
21840	6:04:00	84.6	115.6	157.1	959.7	9.49	26.0	
21855	6:04:15	83.9	117.4	162.7	959.7	9.49	26.0	
21870	6:04:30	83.7	119.8	168.1	959.7	9.49	26.0	
21885	6:04:45	84.3	123.0	173.2	959.7	9.49	26.0	
21900	6:05:00	84.3	126.5	177.0	959.7	9.49	26.0	
21915	6:05:15	83.7	129.4	176.8	960.2	9.49	26.0	
21930	6:05:30	84.0	135.7	176.8	960.2	9.49	26.0	
21945	6:05:45	84.3	138.6	178.9	960.1	9.49	26.0	
21960	6:06:00	84.0	139.5	180.9	960.2	9.49	26.0	
21975	6:06:15	83.4	140.5	172.2	960.2	9.49	26.0	
21990	6:06:30	83.3	141.3	160.5	960.2	9.49	26.0	
22005	6:06:45	83.6	139.2	158.1	960.2	9.49	26.1	
22020	6:07:00	83.7	133.4	158.0	960.2	9.49	26.1	Analyzer High Span OUT
22035	6:07:15	83.9	129.9	158.7	960.2	9.50	26.1	
22050	6:07:30	84.0	128.6	160.0	960.2	9.49	26.0	
22065	6:07:45	83.7	128.5	160.9	960.2	9.49	25.9	
22080	6:08:00	83.8	128.8	159.5	944.3	9.45	25.7	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22095	6:08:15	84.1	129.3	157.2	569.2	5.32	22.5	
22110	6:08:30	83.7	129.1	155.3	499.3	5.04	19.4	
22125	6:08:45	83.4	128.0	153.7	492.1	5.01	14.2	
22140	6:09:00	83.3	126.8	152.3	490.2	5.00	14.1	
22155	6:09:15	83.6	125.6	151.8	489.2	5.00	14.1	
22170	6:09:30	83.5	124.5	151.4	489.4	5.00	14.1	
22185	6:09:45	83.4	123.9	151.1	489.2	5.00	14.1	
22200	6:10:00	83.7	123.4	150.7	489.2	5.00	14.1	Start Mid Span OUT
22215	6:10:15	83.7	123.1	149.8	489.2	5.00	14.1	
22230	6:10:30	83.9	123.0	149.1	489.2	5.00	14.1	
22245	6:10:45	83.9	122.4	148.4	489.2	5.00	14.1	
22260	6:11:00	83.7	121.9	147.5	489.2	5.00	14.1	
22275	6:11:15	83.9	121.5	147.0	489.4	5.00	14.1	
22290	6:11:30	83.9	120.9	146.6	489.2	5.00	14.1	
22305	6:11:45	84.0	120.4	139.2	489.7	5.00	14.1	
22320	6:12:00	83.7	119.8	134.5	489.2	5.00	14.1	
22335	6:12:15	83.8	117.4	137.3	489.2	5.00	14.1	
22350	6:12:30	84.0	113.9	131.8	489.2	5.00	14.1	
22365	6:12:45	83.7	113.8	134.2	489.2	5.00	14.1	
22380	6:13:00	83.6	112.1	136.2	489.6	5.00	14.1	
22395	6:13:15	83.8	111.5	129.7	489.4	5.00	14.1	
22410	6:13:30	83.4	112.6	133.0	489.7	5.00	14.1	
22425	6:13:45	83.2	110.7	138.1	489.2	5.00	14.1	
22440	6:14:00	83.1	110.5	140.1	489.2	5.00	14.1	
22455	6:14:15	83.3	112.6	139.7	489.2	5.00	14.1	
22470	6:14:30	83.4	114.3	139.2	489.7	5.00	14.1	
22485	6:14:45	83.4	114.7	138.6	489.2	5.00	14.1	
22500	6:15:00	83.6	114.7	137.8	489.2	5.00	14.1	Analyzer Mid Span OUT
22515	6:15:15	83.5	117.8	138.3	489.7	5.00	14.1	
22530	6:15:30	83.8	118.3	139.4	489.2	5.00	14.1	
22545	6:15:45	83.9	118.5	140.6	489.2	4.99	13.9	
22560	6:16:00	84.0	119.1	141.3	490.2	5.00	13.8	
22575	6:16:15	83.9	119.9	142.1	309.4	3.69	13.9	
22590	6:16:30	83.9	120.5	142.7	259.8	3.35	14.1	
22605	6:16:45	83.8	121.0	142.9	253.9	3.31	6.7	
22620	6:17:00	83.8	121.5	142.9	252.3	3.31	6.6	
22635	6:17:15	84.0	121.8	143.1	251.8	3.31	6.7	
22650	6:17:30	83.8	121.9	143.4	251.8	3.30	6.8	
22665	6:17:45	83.9	122.2	143.7	251.8	3.30	6.8	
22680	6:18:00	83.9	122.3	144.3	251.8	3.30	6.8	
22695	6:18:15	83.9	122.5	143.1	251.8	3.30	6.7	
22710	6:18:30	84.2	122.5	139.3	251.8	3.30	6.7	
22725	6:18:45	84.2	121.0	133.6	251.8	3.30	0.7	
22740	6:19:00	84.1	114.5	129.2	250.2	2.73	0.6	
22755	6:19:15	83.9	94.5	126.6	239.9	2.62	0.4	
22770	6:19:30	83.6	83.3	125.3	239.7	2.57	0.4	
22785	6:19:45	83.6	77.8	124.7	237.1	2.57	6.5	
22800	6:20:00	84.0	75.0	124.2	236.6	2.57	6.6	Start Low Span OUT

Manufacturer: RIELLO
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Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22815	6:20:15	84.2	73.3	124.1	236.0	2.57	6.6	
22830	6:20:30	83.7	72.2	124.0	236.0	2.57	6.6	
22845	6:20:45	83.9	71.4	123.9	236.0	2.57	6.6	
22860	6:21:00	83.6	70.9	123.5	236.6	2.57	6.6	
22875	6:21:15	83.5	70.4	122.2	236.6	2.56	6.7	
22890	6:21:30	83.7	70.1	118.6	236.0	2.56	6.7	
22905	6:21:45	83.9	69.9	113.3	236.0	2.57	6.7	
22920	6:22:00	83.9	69.7	107.2	236.0	2.56	6.6	
22935	6:22:15	83.9	69.5	101.5	236.0	2.57	6.6	
22950	6:22:30	84.0	69.4	96.6	236.0	2.57	6.6	
22965	6:22:45	83.8	69.2	92.3	236.0	2.57	6.6	
22980	6:23:00	83.6	69.2	87.5	236.0	2.56	6.6	
22995	6:23:15	83.6	69.1	83.5	236.0	2.57	6.6	
23010	6:23:30	83.5	69.0	80.2	236.0	2.57	6.7	
23025	6:23:45	83.4	69.0	77.7	236.6	2.56	6.7	
23040	6:24:00	83.5	68.9	75.9	236.0	2.56	6.7	
23055	6:24:15	83.1	68.8	74.5	236.0	2.56	6.7	
23070	6:24:30	83.0	68.8	73.5	236.6	2.57	6.7	
23085	6:24:45	83.1	68.8	72.8	236.0	2.57	6.7	
23100	6:25:00	83.2	68.8	72.4	236.0	2.56	6.7	Analyzer Low Span OUT
23115	6:25:15	83.6	68.8	71.9	236.0	2.57	6.7	
23130	6:25:30	83.7	68.8	71.6	236.0	2.56	6.7	
23145	6:25:45	83.4	68.6	71.4	236.6	2.56	6.5	
23160	6:26:00	83.6	68.5	71.1	77.4	0.82	6.6	
23175	6:26:15	83.2	68.5	70.9	0.0	0.03	3.6	
23190	6:26:30	83.6	68.5	70.8	0.0	0.00	0.6	
23205	6:26:45	83.7	68.4	70.7	0.0	0.00	0.4	
23220	6:27:00	83.3	68.4	70.5	0.0	0.00	0.4	
23235	6:27:15	83.5	68.3	70.4	0.0	0.00	0.3	
23250	6:27:30	84.2	68.4	70.3	0.0	0.00	0.3	
23265	6:27:45	84.8	68.3	70.2	0.0	0.00	0.3	
23280	6:28:00	84.5	68.2	70.1	0.0	0.00	0.3	Start Zero Bias OUT
23295	6:28:15	84.5	68.3	70.1	0.0	0.00	0.3	
23310	6:28:30	84.7	68.1	69.9	0.0	0.00	0.3	
23325	6:28:45	84.7	68.1	69.8	0.0	0.00	0.3	
23340	6:29:00	84.9	68.0	69.8	0.0	0.00	0.3	
23355	6:29:15	85.3	68.0	69.7	0.0	0.00	0.2	
23370	6:29:30	85.7	68.0	69.9	0.0	0.00	0.2	
23385	6:29:45	85.8	68.0	69.8	0.0	0.00	0.2	
23400	6:30:00	86.0	68.1	69.7	0.0	0.00	0.2	
23415	6:30:15	85.9	68.1	69.8	0.0	0.00	0.2	
23430	6:30:30	85.7	68.1	69.8	0.0	0.00	0.2	
23445	6:30:45	85.6	68.2	69.8	0.0	0.00	0.2	
23460	6:31:00	85.9	68.2	69.9	0.0	0.00	0.2	
23475	6:31:15	85.8	68.3	70.0	0.0	0.00	0.2	
23490	6:31:30	86.3	68.4	70.1	0.0	0.00	0.2	
23505	6:31:45	86.4	68.5	70.3	0.0	0.00	0.2	
23520	6:32:00	86.8	68.5	70.2	0.0	0.00	0.2	

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Date: June 24, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
23535	6:32:15	86.6	68.7	70.4	0.0	0.00	0.1	
23550	6:32:30	86.5	68.7	70.4	0.0	0.00	0.1	
23565	6:32:45	87.4	68.8	70.5	0.0	0.00	0.1	
23580	6:33:00	86.7	69.0	70.8	0.0	0.00	0.1	System Zero OUT
23595	6:33:15	86.2	69.1	71.2	0.0	0.00	0.1	
23610	6:33:30	85.6	69.3	71.6	0.0	0.00	0.1	
23625	6:33:45	85.1	69.4	71.9	0.0	0.03	0.1	
23640	6:34:00	84.8	69.5	72.2	247.2	2.55	0.2	
23655	6:34:15	85.1	69.7	72.4	453.0	4.82	0.2	
23670	6:34:30	85.4	69.7	72.7	473.2	4.93	0.1	
23685	6:34:45	86.3	69.9	72.8	478.0	4.96	0.1	
23700	6:35:00	86.6	70.0	72.9	479.6	4.97	0.1	
23715	6:35:15	86.5	70.1	73.1	480.7	4.97	0.1	
23730	6:35:30	86.5	70.2	73.3	480.7	4.98	0.1	
23745	6:35:45	86.6	70.2	73.4	481.2	4.98	0.1	
23760	6:36:00	87.5	70.4	73.5	480.7	4.98	0.1	Start Mid CO/CO2 Bias OUT
23775	6:36:15	87.3	70.5	73.6	480.7	4.98	0.1	
23790	6:36:30	86.6	70.6	73.7	481.2	4.98	0.1	
23805	6:36:45	85.6	70.8	73.8	481.2	4.98	0.1	
23820	6:37:00	84.8	70.9	73.9	481.2	4.98	0.1	
23835	6:37:15	84.5	71.0	74.1	481.2	4.98	0.1	
23850	6:37:30	84.7	71.2	74.2	481.2	4.98	0.1	
23865	6:37:45	84.4	71.3	74.3	481.2	4.98	0.1	
23880	6:38:00	84.3	71.5	74.5	481.2	4.98	0.1	
23895	6:38:15	84.3	71.6	74.6	481.2	4.99	0.1	
23910	6:38:30	83.5	71.8	74.7	481.2	4.99	0.1	
23925	6:38:45	83.5	72.0	74.9	480.6	4.99	0.1	
23940	6:39:00	83.1	72.1	75.0	480.9	4.99	0.1	
23955	6:39:15	83.3	72.3	75.2	481.2	4.99	0.1	
23970	6:39:30	83.2	72.5	75.3	480.6	4.99	0.1	
23985	6:39:45	83.4	72.5	75.4	481.2	4.99	0.1	
24000	6:40:00	83.5	72.7	75.5	481.2	4.99	0.1	
24015	6:40:15	84.1	72.8	75.7	481.2	4.99	0.1	
24030	6:40:30	84.4	73.0	75.7	481.2	4.99	0.1	
24045	6:40:45	84.2	73.0	75.8	480.9	4.99	0.1	
24060	6:41:00	84.3	73.1	75.9	480.6	4.99	0.1	System Mid CO/CO2 OUT
24075	6:41:15	83.9	73.2	75.9	480.8	4.99	0.1	
24090	6:41:30	84.5	73.3	76.0	481.2	4.99	0.1	
24105	6:41:45	84.6	73.4	76.0	300.9	3.99	0.1	
24120	6:42:00	84.7	73.5	76.2	73.2	0.49	0.1	
24135	6:42:15	85.0	73.5	76.3	202.2	2.46	0.1	
24150	6:42:30	85.6	73.6	76.2	221.5	2.55	0.1	
24165	6:42:45	85.7	73.6	76.3	225.2	2.57	0.1	
24180	6:43:00	85.9	73.8	76.4	226.3	2.57	0.1	
24195	6:43:15	86.3	73.8	76.5	226.8	2.57	0.1	
24210	6:43:30	86.3	73.9	76.5	226.8	2.57	0.0	
24225	6:43:45	85.7	74.0	76.6	226.8	2.57	0.0	
24240	6:44:00	85.7	74.1	76.6	226.3	2.57	0.0	Start Low CO/CO2 Bias OUT

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
24255	6:44:15	85.9	74.2	76.7	226.2	2.57	0.0	
24270	6:44:30	85.7	74.3	76.8	226.4	2.57	0.0	
24285	6:44:45	85.5	74.3	76.7	226.3	2.57	0.0	
24300	6:45:00	85.3	74.4	76.9	226.8	2.57	0.0	
24315	6:45:15	86.0	74.5	76.9	226.2	2.57	0.0	
24330	6:45:30	85.6	74.6	77.1	226.8	2.57	0.0	
24345	6:45:45	85.5	74.7	77.1	226.8	2.57	0.0	
24360	6:46:00	85.6	74.7	77.2	226.8	2.57	0.0	
24375	6:46:15	85.5	74.9	77.1	226.5	2.57	0.0	
24390	6:46:30	85.5	75.0	77.3	226.8	2.57	0.0	
24405	6:46:45	85.3	75.1	77.4	226.3	2.57	0.0	
24420	6:47:00	85.4	75.1	77.4	226.3	2.57	0.0	
24435	6:47:15	86.1	75.2	77.5	226.8	2.57	0.0	
24450	6:47:30	85.8	75.1	77.5	226.2	2.57	0.0	
24465	6:47:45	86.1	75.3	77.6	226.3	2.57	0.0	
24480	6:48:00	86.5	75.4	77.6	226.3	2.57	0.0	
24495	6:48:15	86.5	75.5	77.8	226.3	2.57	0.0	
24510	6:48:30	86.5	75.7	77.9	226.8	2.57	0.0	
24525	6:48:45	86.6	75.8	77.9	226.8	2.57	0.0	
24540	6:49:00	86.5	75.9	78.0	226.3	2.57	0.0	System Low CO/CO2 OUT
24555	6:49:15	86.5	75.9	78.1	226.3	2.57	0.0	
24570	6:49:30	86.0	76.0	78.2	226.3	2.57	0.0	
24585	6:49:45	85.2	76.0	78.2	226.3	2.57	0.0	
24600	6:50:00	85.7	76.0	78.1	189.8	2.54	0.0	
24615	6:50:15	85.7	76.1	78.2	20.8	0.28	0.1	
24630	6:50:30	84.6	76.2	78.3	0.0	0.11	0.2	
24645	6:50:45	85.1	76.3	78.4	0.0	0.09	0.3	
24660	6:51:00	85.0	76.4	78.4	0.0	0.03	0.2	
24675	6:51:15	84.6	76.4	78.4	0.0	0.00	6.7	
24690	6:51:30	84.4	76.5	78.4	0.0	0.00	13.1	
24705	6:51:45	84.7	76.6	78.5	0.0	0.00	13.6	
24720	6:52:00	84.4	76.7	78.7	0.0	0.00	13.6	Start Mid NOx Bias OUT
24735	6:52:15	84.3	76.8	78.7	0.0	0.00	13.6	
24750	6:52:30	84.7	76.9	78.8	0.0	0.00	13.7	
24765	6:52:45	84.9	76.9	78.8	0.0	0.00	13.7	
24780	6:53:00	85.3	77.0	78.9	0.0	0.00	13.7	
24795	6:53:15	85.3	77.1	78.9	0.0	0.00	13.7	
24810	6:53:30	86.0	77.0	79.0	0.0	0.00	13.7	
24825	6:53:45	86.0	77.1	78.9	0.0	0.00	13.7	
24840	6:54:00	86.0	77.2	79.1	0.0	0.00	13.7	
24855	6:54:15	86.3	77.2	79.1	0.0	0.00	13.8	
24870	6:54:30	85.2	77.3	79.2	0.0	0.00	13.7	
24885	6:54:45	85.2	77.3	79.2	0.0	0.00	13.7	
24900	6:55:00	85.6	77.4	79.2	0.0	0.00	13.7	
24915	6:55:15	84.9	77.5	79.3	0.0	0.00	13.8	
24930	6:55:30	84.4	77.6	79.4	0.0	0.00	13.8	
24945	6:55:45	84.2	77.6	79.4	0.0	0.00	13.8	
24960	6:56:00	84.2	77.7	79.5	0.0	0.00	13.8	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
24975	6:56:15	83.9	77.7	79.5	0.0	0.00	13.8	
24990	6:56:30	84.2	77.8	79.6	0.0	0.00	13.8	
25005	6:56:45	84.5	77.8	79.6	0.0	0.00	13.8	
25020	6:57:00	84.4	77.8	79.7	0.0	0.00	13.8	System Mid NOx OUT
25035	6:57:15	84.4	77.9	79.7	0.0	0.00	13.8	
25050	6:57:30	84.1	78.1	79.8	0.0	0.00	13.8	
25065	6:57:45	84.0	78.2	79.9	0.0	0.00	13.7	
25080	6:58:00	83.7	78.2	79.9	0.0	0.03	13.3	
25095	6:58:15	84.0	78.3	80.1	0.0	0.03	6.9	
25110	6:58:30	83.9	78.5	80.0	0.0	0.00	0.9	
25125	6:58:45	84.0	78.5	80.1	0.0	0.00	6.4	
25140	6:59:00	84.2	78.5	80.2	0.0	0.00	6.4	
25155	6:59:15	84.0	78.6	80.1	0.0	0.00	6.5	
25170	6:59:30	84.0	78.6	80.2	0.0	0.00	6.5	
25185	6:59:45	83.6	78.5	80.1	0.0	0.00	6.5	
25200	7:00:00	83.5	78.5	80.1	0.0	0.00	6.5	Start Low NOx Bias OUT
25215	7:00:15	83.4	78.4	80.1	0.0	0.00	6.5	
25230	7:00:30	83.2	78.6	80.2	0.0	0.00	6.5	
25245	7:00:45	83.2	78.5	80.2	0.0	0.00	6.5	
25260	7:01:00	83.0	78.7	80.2	0.0	0.00	6.5	
25275	7:01:15	82.8	78.7	80.3	0.0	0.00	6.5	
25290	7:01:30	82.9	78.7	80.3	0.0	0.00	6.5	
25305	7:01:45	82.4	78.6	80.2	0.0	0.00	6.5	
25320	7:02:00	82.5	78.6	80.3	0.0	0.00	6.5	
25335	7:02:15	82.7	78.6	80.3	0.0	0.00	6.5	
25350	7:02:30	83.0	78.6	80.3	0.0	0.00	6.5	
25365	7:02:45	83.0	78.7	80.3	0.0	0.00	6.5	
25380	7:03:00	83.3	78.7	80.3	0.0	0.00	6.5	
25395	7:03:15	83.8	78.7	80.3	0.0	0.00	6.5	
25410	7:03:30	83.8	78.7	80.3	0.0	0.00	6.5	
25425	7:03:45	83.5	78.8	80.3	0.0	0.00	6.5	
25440	7:04:00	83.8	78.8	80.3	0.0	0.00	6.5	
25455	7:04:15	83.7	78.8	80.3	0.0	0.00	6.5	
25470	7:04:30	83.6	78.9	80.4	0.0	0.00	6.5	
25485	7:04:45	84.0	78.9	80.4	0.0	0.00	6.5	
25500	7:05:00	84.4	78.9	80.4	0.0	0.00	6.5	System Low NOx OUT
25515	7:05:15	84.7	79.0	80.5	0.0	0.00	6.5	
Average =		81.2						

APPENDIX E

Test Results for:

SSB512

Low Run#: 2& 3

Date: June 25, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Minimum Rate

Input Rate = 97,600 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	80.7	80.0	°F
Relative Humidity	54	54	%
Barometer	29.00	29	in.Hg
Heating Value	1087	1087	BTU/ft ³
Inlet Pressure	7.4	7.4	in.w.c.
Manifold Pressure	0.1	0.1	in.w.c.
Gas Meter Reading	6077.17	6124.21	ft ³
Gas Temperature	74.0	74.0	°F
Water Meter Reading	696665.1	696831.8	gal

Mass	1363.8	lb
Di	8.181	lb/gal
Dn	8.139	lb/gal

Tin	149.5	°F
Tdel	180.5	°F

Calculations		
Test Start	1:42:00	h:mm:ss
Test End	2:12:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	98,073	BTU/hr
Cf	1.098	no units
Ho	42,194	BTU
Uncorrected Volume	47.04	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.974	no units
F	45.11	ft ³
C	7.3	%
P	3.2	ppm

N = 2.7 ng/J
4.5 ppm @ 3% O₂

Date: June 25, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 512

Serial No.: NONE

Minimum Rate

Input Rate = 97,600 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	82.5	82.4	°F
Relative Humidity	54	54	%
Barometer	28.99	28.99	in.Hg
Heating Value	1087	1087	BTU/ft ³
Inlet Pressure	7.4	7.4	in.w.c.
Manifold Pressure	0.1	0.1	in.w.c.
Gas Meter Reading	6261.75	6309.70	ft ³
Gas Temperature	81.0	81.0	°F
Water Meter Reading	697355.1	697525.7	gal

Mass	1396.1	lb
Di	8.184	lb/gal
Dn	8.142	lb/gal

Tin	148.6	°F
Tdel	179.6	°F

Calculations		
Test Start	3:42:00	h:mm:ss
Test End	4:12:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	98,643	BTU/hr
Cf	1.098	no units
Ho	43,193	BTU
Uncorrected Volume	47.95	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.961	no units
F	45.37	ft ³
C	7.4	%
P	3.6	ppm

N = 2.9 ng/J
5.0 ppm @ 3% O₂

Date: June 25, 2015

Low Run#: 2 & 3

Manufacturer: RIELLO
Model No.: SSB 512
Serial No.: NONE

Analytical Ranges
NOx = 30 ppm
CO2 = 10 %
CO = 1000 ppm

Pretest Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)	
NOx Zero	0	0.00			0.00	0.03			-0.10
NOx Low	6.95	6.93			0.07	6.76			-0.63
NOx Mid	14.56	14.59			-0.10	14.23			1.10
NOx High	26.66	26.77			-0.37				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24
CO2 Mid	5.007		5.01		-0.03		5.00		0.07
CO2 High	9.488		9.50		-0.12				
CO Zero	0			0.00	0.00			0.00	0.00
CO Low	249.0			241.26	0.77			237.00	1.20
CO Mid	502.5			501.02	0.15			493.56	0.89
CO High	976			975.31	0.07				

Post Test Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)	System Drift (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)		
NOx Zero	0	0.01			-0.03	0.20			-0.67	0.57
NOx Low	6.95	6.70			0.83	6.61			1.13	-0.50
NOx Mid	14.56	14.21			1.17	13.83			2.43	-1.33
NOx High	26.66	26.16			1.67					
CO2 Zero	0		0.00		0.00		0.00		0.00	0.00
CO2 Low	2.594		2.58		0.14		2.58		0.14	0.10
CO2 Mid	5.007		5.01		-0.03		5.00		0.07	0.00
CO2 High	9.488		9.51		-0.22					
CO Zero	0			0.00	0.00			0.00	0.00	0.00
CO Low	249.0			235.61	1.34			227.35	2.17	-0.97
CO Mid	502.5			488.68	1.38			481.24	2.13	-1.23
CO High	976			959.20	1.68					

Calibration Linearity

NOx Pretest	0.100
CO2 Pretest	0.033
CO Pretest	0.112

NOx Post Test	0.238
CO2 Post Test	0.086
CO Post Test	0.517

Gas Cylinders

Cylinder #	Concentration		
EB0018049	Low NOX =	6.95	ppm
CC100400	Mid NOX =	14.56	ppm
CC267435	High NOX =	26.66	ppm
CC129082	CO2 Low =	2.594	%
	CO Low =	249	ppm
CC25693	CO2 Mid =	5.007	%
	CO Mid =	502.5	ppm
CC353963	CO2 High =	9.488	%
	CO High =	976	ppm

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	72.6	71.4	70.5	0.0	0.00	0.0	
15	0:00:15	72.1	71.6	70.6	0.0	0.00	0.0	
30	0:00:30	72.2	71.6	70.6	0.0	0.00	0.0	
45	0:00:45	72.4	71.7	70.7	0.0	0.00	0.0	
60	0:01:00	72.0	71.7	70.8	0.0	0.00	0.0	Start Zero IN
75	0:01:15	71.6	71.7	70.9	0.0	0.00	0.0	
90	0:01:30	71.5	71.8	71.0	0.0	0.00	0.0	
105	0:01:45	71.5	71.7	71.1	0.0	0.00	0.0	
120	0:02:00	71.4	71.7	71.2	0.0	0.00	0.0	
135	0:02:15	71.4	71.7	71.4	0.0	0.00	0.0	
150	0:02:30	71.5	71.5	71.5	0.0	0.00	0.0	
165	0:02:45	71.6	71.5	71.6	0.0	0.00	0.0	
180	0:03:00	71.5	71.4	71.9	0.0	0.00	0.0	
195	0:03:15	71.5	71.3	71.9	0.0	0.00	0.0	
210	0:03:30	71.4	71.2	72.0	0.0	0.00	0.0	
225	0:03:45	71.4	71.1	72.1	0.0	0.00	0.0	
240	0:04:00	71.6	71.0	72.1	0.0	0.00	0.0	
255	0:04:15	71.5	70.9	72.2	0.0	0.00	0.0	
270	0:04:30	71.6	70.9	72.2	0.0	0.00	0.0	
285	0:04:45	71.8	70.7	72.2	0.0	0.00	0.0	
300	0:05:00	71.7	70.6	72.1	0.0	0.00	0.0	
315	0:05:15	71.9	70.5	72.1	0.0	0.00	0.0	
330	0:05:30	72.2	70.4	72.0	0.0	0.00	0.0	
345	0:05:45	72.1	70.3	71.9	0.0	0.00	0.0	
360	0:06:00	72.4	70.1	71.8	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	72.5	70.1	71.7	0.0	0.00	0.0	
390	0:06:30	72.4	70.0	71.7	0.0	0.00	0.0	
405	0:06:45	72.2	69.9	71.5	599.9	5.99	0.0	
420	0:07:00	72.6	69.8	71.4	939.5	9.36	10.7	
435	0:07:15	72.5	69.7	71.2	968.4	9.49	23.4	
450	0:07:30	72.2	69.6	71.1	974.3	9.51	25.5	
465	0:07:45	72.3	69.5	71.0	975.9	9.51	26.2	
480	0:08:00	72.2	69.4	71.0	976.4	9.52	26.4	
495	0:08:15	72.2	69.3	70.9	976.4	9.51	26.5	
510	0:08:30	72.2	69.3	70.8	976.4	9.52	26.6	
525	0:08:45	72.2	69.2	70.7	976.9	9.52	26.6	
540	0:09:00	72.7	69.1	70.7	976.9	9.52	26.6	Start High Span IN
555	0:09:15	72.7	69.0	70.9	977.5	9.52	26.7	
570	0:09:30	72.7	68.9	77.4	977.5	9.52	26.7	
585	0:09:45	72.6	68.8	98.2	977.5	9.52	26.7	
600	0:10:00	72.8	68.8	129.1	978.5	10.50	26.7	
615	0:10:15	72.8	68.8	162.5	975.3	9.49	26.7	
630	0:10:30	72.5	68.8	192.0	975.3	9.49	26.7	
645	0:10:45	72.5	68.7	212.2	975.3	9.49	26.7	
660	0:11:00	73.0	68.7	222.4	974.8	9.50	26.7	
675	0:11:15	73.2	68.6	220.7	975.3	9.49	26.7	
690	0:11:30	73.0	68.7	212.2	975.3	9.49	26.7	
705	0:11:45	73.2	68.5	201.1	975.9	9.50	26.7	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	73.4	68.5	189.7	975.5	9.50	26.7	
735	0:12:15	73.5	68.4	182.6	975.3	9.50	26.8	
750	0:12:30	72.9	68.4	178.7	975.8	9.50	26.7	
765	0:12:45	73.3	68.3	175.3	975.3	9.49	26.8	
780	0:13:00	73.3	68.3	172.0	975.8	9.50	26.8	
795	0:13:15	73.5	68.2	168.2	975.3	9.50	26.8	
810	0:13:30	73.6	68.2	165.1	975.3	9.50	26.8	
825	0:13:45	73.8	68.1	162.0	975.3	9.50	26.8	
840	0:14:00	73.5	68.1	159.3	975.3	9.50	26.8	Analyzer High Span IN
855	0:14:15	73.5	68.0	156.7	975.3	9.50	26.8	
870	0:14:30	73.3	68.0	153.8	973.3	9.49	26.8	
885	0:14:45	73.2	68.0	151.7	597.3	5.33	26.8	
900	0:15:00	73.5	67.9	149.2	511.9	5.04	20.5	
915	0:15:15	73.7	67.9	147.5	504.7	5.01	14.4	
930	0:15:30	73.4	67.8	145.9	502.1	5.01	14.5	
945	0:15:45	73.0	67.9	144.8	501.6	5.01	14.6	
960	0:16:00	73.3	67.8	143.6	501.6	5.01	14.6	
975	0:16:15	73.1	67.8	142.3	501.6	5.01	14.6	
990	0:16:30	73.5	67.8	141.9	501.6	5.01	14.6	
1005	0:16:45	73.7	67.7	140.7	501.0	5.01	14.6	
1020	0:17:00	73.6	67.6	139.9	501.0	5.01	14.6	Start Mid Span IN
1035	0:17:15	73.4	67.6	138.4	501.0	5.01	14.6	
1050	0:17:30	73.1	67.6	136.4	501.0	5.01	14.6	
1065	0:17:45	73.4	67.6	136.0	501.0	5.01	14.6	
1080	0:18:00	73.6	67.5	135.8	501.0	5.01	14.6	
1095	0:18:15	73.8	67.6	135.4	501.0	5.01	14.6	
1110	0:18:30	73.9	67.4	134.9	501.0	5.01	14.6	
1125	0:18:45	73.7	67.4	136.7	501.0	5.01	14.6	
1140	0:19:00	73.7	67.4	135.6	501.0	5.01	14.6	
1155	0:19:15	73.7	67.4	138.3	501.0	5.01	14.6	
1170	0:19:30	73.4	67.5	141.6	501.0	5.01	14.6	
1185	0:19:45	73.9	67.5	144.1	501.0	5.01	14.6	
1200	0:20:00	73.7	67.7	136.7	501.0	5.01	14.6	
1215	0:20:15	73.7	87.0	120.1	501.0	5.01	14.6	
1230	0:20:30	73.6	107.5	105.7	501.0	5.01	14.6	
1245	0:20:45	73.5	105.8	100.4	501.0	5.01	14.6	
1260	0:21:00	73.7	98.9	98.9	501.0	5.01	14.6	
1275	0:21:15	73.7	93.6	96.6	501.0	5.01	14.6	
1290	0:21:30	73.6	90.7	108.2	501.0	5.01	14.6	
1305	0:21:45	73.8	86.7	117.1	501.0	5.01	14.6	
1320	0:22:00	73.1	89.8	119.8	501.0	5.01	14.6	Analyzer Mid Span IN
1335	0:22:15	73.0	94.1	120.8	501.0	5.01	14.6	
1350	0:22:30	74.0	96.4	120.1	501.0	5.01	14.6	
1365	0:22:45	74.1	97.5	117.3	500.5	5.00	14.0	
1380	0:23:00	74.1	97.7	116.3	430.1	4.75	14.4	
1395	0:23:15	74.1	96.7	117.0	260.4	2.63	11.1	
1410	0:23:30	74.0	96.2	118.3	246.1	2.58	7.3	
1425	0:23:45	74.1	96.2	120.0	242.9	2.58	6.8	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	74.1	96.7	121.1	241.8	2.58	6.8	
1455	0:24:15	74.1	97.5	121.9	241.8	2.58	6.9	
1470	0:24:30	74.2	98.1	122.3	241.3	2.58	6.9	
1485	0:24:45	74.2	98.7	122.1	241.3	2.58	6.9	
1500	0:25:00	74.3	99.2	122.4	241.3	2.58	6.9	Start Low Span IN
1515	0:25:15	74.3	99.3	122.5	241.3	2.58	6.9	
1530	0:25:30	74.1	99.5	122.9	241.3	2.57	6.9	
1545	0:25:45	74.1	99.4	123.6	241.3	2.58	6.9	
1560	0:26:00	74.2	99.8	124.1	241.3	2.58	6.9	
1575	0:26:15	74.2	100.0	124.5	241.3	2.58	6.9	
1590	0:26:30	74.2	100.3	125.1	241.3	2.58	6.9	
1605	0:26:45	74.2	100.5	125.3	241.3	2.57	7.0	
1620	0:27:00	74.2	100.9	125.5	241.3	2.57	6.9	
1635	0:27:15	74.1	100.9	126.0	241.3	2.58	6.9	
1650	0:27:30	74.0	101.1	126.5	241.3	2.57	6.9	
1665	0:27:45	74.1	101.4	126.8	241.3	2.57	6.9	
1680	0:28:00	74.2	101.7	127.2	241.3	2.57	6.9	
1695	0:28:15	74.2	101.8	127.2	241.3	2.57	6.9	
1710	0:28:30	74.2	102.1	127.4	241.3	2.57	6.9	
1725	0:28:45	74.0	102.1	127.7	241.3	2.57	6.9	
1740	0:29:00	74.0	102.2	127.9	241.3	2.57	6.9	
1755	0:29:15	74.1	102.4	128.1	241.3	2.58	6.9	
1770	0:29:30	74.0	102.6	128.2	241.3	2.58	6.9	
1785	0:29:45	74.2	102.6	128.3	241.3	2.57	6.9	
1800	0:30:00	74.2	102.7	128.3	241.3	2.57	6.9	Analyzer Low Span IN
1815	0:30:15	74.3	102.9	128.4	241.3	2.57	6.9	
1830	0:30:30	74.1	102.9	128.6	241.3	2.58	6.9	
1845	0:30:45	74.1	103.0	128.9	241.3	2.57	6.9	
1860	0:31:00	74.8	103.2	129.2	241.3	2.57	6.8	
1875	0:31:15	74.4	103.2	129.3	227.5	2.55	7.0	
1890	0:31:30	74.3	103.3	129.3	50.4	0.38	7.2	
1905	0:31:45	74.4	103.4	129.4	5.5	0.03	0.6	
1920	0:32:00	74.3	103.5	129.8	0.1	0.01	0.3	
1935	0:32:15	74.3	103.5	129.8	0.0	0.00	0.1	
1950	0:32:30	74.3	103.7	130.0	0.0	0.00	0.1	
1965	0:32:45	74.4	103.8	129.9	0.0	0.00	0.1	
1980	0:33:00	74.3	103.8	130.2	0.0	0.00	0.1	Start Zero Bias IN
1995	0:33:15	74.2	103.8	130.3	0.0	0.00	0.1	
2010	0:33:30	74.4	103.9	130.6	0.0	0.00	0.1	
2025	0:33:45	74.4	104.1	131.1	0.0	0.00	0.1	
2040	0:34:00	74.4	106.0	132.4	0.0	0.00	0.1	
2055	0:34:15	74.4	107.9	133.3	0.0	0.00	0.0	
2070	0:34:30	74.4	108.9	133.9	0.0	0.00	0.0	
2085	0:34:45	74.4	109.8	134.7	0.0	0.00	0.0	
2100	0:35:00	74.6	112.3	135.5	0.0	0.00	0.0	
2115	0:35:15	74.5	113.3	136.9	0.0	0.00	0.0	
2130	0:35:30	74.6	114.0	137.7	0.0	0.00	0.0	
2145	0:35:45	74.4	114.9	138.7	0.0	0.00	0.0	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	74.5	115.5	140.3	0.0	0.00	0.0	
2175	0:36:15	74.5	116.3	142.0	0.0	0.00	0.0	
2190	0:36:30	74.5	117.2	143.4	0.0	0.00	0.0	
2205	0:36:45	74.6	118.3	144.8	0.0	0.00	0.0	
2220	0:37:00	74.4	119.3	145.6	0.0	0.00	0.0	
2235	0:37:15	74.3	120.2	146.8	0.0	0.00	0.0	
2250	0:37:30	74.5	121.1	147.7	0.0	0.00	0.0	
2265	0:37:45	74.4	122.1	148.7	0.0	0.00	0.0	
2280	0:38:00	74.4	122.8	149.8	0.0	0.00	0.0	System Zero IN
2295	0:38:15	74.3	123.4	151.4	0.0	0.00	0.0	
2310	0:38:30	74.4	124.2	153.3	0.0	0.00	0.0	
2325	0:38:45	74.5	125.2	154.8	0.0	0.00	0.0	
2340	0:39:00	74.3	126.4	156.3	0.0	0.02	0.0	
2355	0:39:15	74.3	127.5	157.4	290.8	3.21	0.0	
2370	0:39:30	74.5	128.7	158.6	469.6	4.86	0.1	
2385	0:39:45	74.6	129.6	159.5	486.1	4.95	0.0	
2400	0:40:00	74.6	130.3	160.7	490.4	4.97	0.0	
2415	0:40:15	74.5	131.0	162.1	492.0	4.98	0.0	
2430	0:40:30	74.4	131.8	163.0	492.5	4.99	0.0	
2445	0:40:45	74.4	132.9	164.3	493.0	4.99	0.0	
2460	0:41:00	74.3	133.6	165.3	493.0	4.99	0.0	Start Mid CO/CO2 Bias IN
2475	0:41:15	74.6	134.4	166.5	493.6	4.99	0.0	
2490	0:41:30	74.6	135.0	167.8	493.6	4.99	0.0	
2505	0:41:45	74.8	135.8	169.2	493.6	4.99	0.0	
2520	0:42:00	74.6	136.5	170.1	493.6	4.99	0.0	
2535	0:42:15	74.2	137.4	171.1	493.6	5.00	0.0	
2550	0:42:30	74.5	138.2	172.2	493.6	5.00	0.0	
2565	0:42:45	74.7	139.0	172.7	493.6	5.00	0.0	
2580	0:43:00	74.8	139.8	174.2	493.6	5.00	0.0	
2595	0:43:15	74.7	140.0	175.5	494.1	5.00	0.0	
2610	0:43:30	74.8	140.8	175.6	494.1	5.00	0.0	
2625	0:43:45	74.8	141.8	174.2	494.1	5.00	0.0	
2640	0:44:00	74.8	142.5	173.4	494.1	5.00	0.0	
2655	0:44:15	74.7	142.2	173.7	493.6	5.00	0.0	
2670	0:44:30	74.5	141.7	174.3	494.1	5.00	0.0	
2685	0:44:45	74.3	141.6	174.9	493.6	5.00	0.0	
2700	0:45:00	74.3	141.9	175.7	493.6	5.00	0.0	
2715	0:45:15	74.4	142.3	176.6	493.6	5.00	0.0	
2730	0:45:30	74.3	142.8	177.2	494.1	5.00	0.0	
2745	0:45:45	74.4	143.5	177.7	493.6	5.00	0.0	
2760	0:46:00	74.7	143.8	178.0	493.6	5.00	0.0	System Mid CO/CO2 IN
2775	0:46:15	74.9	144.1	178.7	493.6	5.00	0.0	
2790	0:46:30	74.9	144.4	178.7	493.6	5.00	0.0	
2805	0:46:45	74.8	144.8	179.2	218.6	2.41	0.0	
2820	0:47:00	74.8	145.1	179.7	79.3	0.37	0.0	
2835	0:47:15	74.9	145.3	179.5	216.0	2.48	0.0	
2850	0:47:30	75.2	139.7	178.5	232.2	2.56	0.0	
2865	0:47:45	75.3	138.6	177.8	235.4	2.57	0.0	

Manufacturer: RIELLO
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Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	75.5	137.8	176.8	236.5	2.58	0.0	
2895	0:48:15	75.6	137.3	176.3	237.0	2.58	0.0	
2910	0:48:30	75.7	136.6	175.3	237.0	2.58	0.0	
2925	0:48:45	75.4	136.3	173.4	237.0	2.58	0.0	
2940	0:49:00	75.2	135.7	172.4	237.0	2.57	0.0	Start Low CO/CO2 Bias IN
2955	0:49:15	75.5	134.8	171.1	237.0	2.57	0.0	
2970	0:49:30	75.5	133.9	169.6	237.0	2.58	0.0	
2985	0:49:45	75.6	134.4	168.3	237.0	2.58	0.0	
3000	0:50:00	75.8	133.9	167.3	237.0	2.57	0.0	
3015	0:50:15	75.7	133.1	166.6	237.0	2.57	0.0	
3030	0:50:30	75.8	132.4	165.6	237.0	2.57	0.0	
3045	0:50:45	75.8	131.8	164.9	237.0	2.57	0.0	
3060	0:51:00	75.8	131.3	165.0	237.0	2.57	0.0	
3075	0:51:15	75.7	130.8	164.2	237.0	2.57	0.0	
3090	0:51:30	75.8	130.6	163.8	237.0	2.57	0.0	
3105	0:51:45	75.8	130.3	163.2	237.0	2.57	0.0	
3120	0:52:00	75.8	129.9	162.7	237.0	2.57	0.0	
3135	0:52:15	75.9	129.6	162.2	237.0	2.57	0.0	
3150	0:52:30	75.4	129.2	161.7	236.5	2.57	0.0	
3165	0:52:45	75.5	128.9	161.3	236.5	2.57	0.0	
3180	0:53:00	75.9	128.6	160.8	237.0	2.57	0.0	
3195	0:53:15	75.9	128.2	160.6	237.0	2.57	0.0	
3210	0:53:30	75.9	127.9	160.1	237.0	2.57	0.0	
3225	0:53:45	75.9	127.7	159.5	236.5	2.57	0.0	
3240	0:54:00	76.1	127.5	159.4	237.0	2.57	0.0	System Low CO/CO2 IN
3255	0:54:15	76.1	127.1	159.1	237.0	2.57	0.0	
3270	0:54:30	76.1	128.5	159.4	237.0	2.57	0.0	
3285	0:54:45	76.0	129.3	159.6	237.0	2.57	0.0	
3300	0:55:00	75.1	129.6	159.2	80.1	0.83	0.0	
3315	0:55:15	75.2	129.7	159.0	6.5	0.08	0.2	
3330	0:55:30	75.6	129.8	158.9	0.1	0.04	0.4	
3345	0:55:45	75.5	129.6	159.4	0.0	0.04	13.8	
3360	0:56:00	75.5	129.5	160.0	0.0	0.04	13.9	
3375	0:56:15	75.2	129.7	160.3	0.0	0.04	14.1	
3390	0:56:30	75.6	130.0	160.4	0.0	0.04	14.1	
3405	0:56:45	75.2	130.2	157.8	0.0	0.04	14.2	
3420	0:57:00	75.4	130.1	144.9	0.0	0.04	14.2	Start Mid NOx Bias IN
3435	0:57:15	75.8	129.4	144.4	0.0	0.04	14.2	
3450	0:57:30	75.7	124.6	152.6	0.0	0.04	14.2	
3465	0:57:45	75.7	121.3	157.9	0.0	0.04	14.2	
3480	0:58:00	75.8	123.3	159.9	0.0	0.04	14.2	
3495	0:58:15	75.9	126.6	160.2	0.0	0.04	14.2	
3510	0:58:30	76.2	128.6	159.6	0.0	0.04	14.2	
3525	0:58:45	76.2	129.6	157.5	0.0	0.04	14.2	
3540	0:59:00	75.6	129.8	156.1	0.0	0.04	14.2	
3555	0:59:15	76.2	129.2	156.5	0.0	0.04	14.2	
3570	0:59:30	76.0	128.3	156.9	0.0	0.05	14.2	
3585	0:59:45	76.3	127.9	157.9	0.0	0.05	14.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	76.5	128.2	159.1	0.0	0.05	14.2	
3615	1:00:15	76.6	129.1	159.7	0.0	0.05	14.2	
3630	1:00:30	76.7	129.9	159.4	0.0	0.05	14.2	
3645	1:00:45	76.6	130.5	158.8	0.0	0.05	14.2	
3660	1:01:00	76.5	130.6	158.4	0.0	0.05	14.2	
3675	1:01:15	76.4	130.5	158.5	0.0	0.05	14.2	
3690	1:01:30	76.7	130.2	158.6	0.0	0.05	14.2	
3705	1:01:45	76.2	130.1	158.9	0.0	0.05	14.2	
3720	1:02:00	75.9	130.1	159.4	0.0	0.05	14.2	System Mid NOx IN
3735	1:02:15	76.3	130.4	159.5	0.0	0.05	14.2	
3750	1:02:30	76.2	130.5	159.8	0.0	0.06	14.2	
3765	1:02:45	76.5	130.8	159.9	0.0	0.06	14.2	
3780	1:03:00	76.0	130.8	159.9	0.0	0.06	14.2	
3795	1:03:15	76.1	130.9	160.0	0.0	0.06	14.2	
3810	1:03:30	76.1	131.1	160.0	0.0	0.06	14.2	
3825	1:03:45	76.7	131.2	159.9	0.0	0.06	2.7	
3840	1:04:00	76.4	131.1	160.0	0.0	0.06	4.2	
3855	1:04:15	76.6	131.1	160.3	0.0	0.07	6.2	
3870	1:04:30	76.6	131.2	160.3	0.0	0.07	6.7	
3885	1:04:45	76.8	131.3	160.4	0.0	0.07	6.8	
3900	1:05:00	76.8	131.2	160.9	0.0	0.07	6.8	Start Low NOx Bias IN
3915	1:05:15	76.8	132.6	161.5	0.0	0.07	6.8	
3930	1:05:30	76.4	133.3	161.9	0.0	0.07	6.8	
3945	1:05:45	76.3	133.7	161.9	0.0	0.07	6.8	
3960	1:06:00	76.6	134.1	162.1	0.0	0.07	6.8	
3975	1:06:15	76.0	134.3	162.0	0.0	0.07	6.8	
3990	1:06:30	76.4	134.5	162.6	0.0	0.07	6.8	
4005	1:06:45	76.7	134.5	163.2	0.0	0.07	6.8	
4020	1:07:00	76.6	134.8	163.6	0.0	0.08	6.7	
4035	1:07:15	76.8	135.2	164.2	0.0	0.08	6.8	
4050	1:07:30	76.8	135.4	164.5	0.0	0.08	6.8	
4065	1:07:45	76.8	135.7	164.9	0.0	0.08	6.8	
4080	1:08:00	76.3	136.0	165.1	0.0	0.08	6.8	
4095	1:08:15	76.2	136.3	165.3	0.0	0.08	6.8	
4110	1:08:30	75.9	136.5	165.6	0.0	0.08	6.8	
4125	1:08:45	76.4	136.7	165.9	0.0	0.08	6.8	
4140	1:09:00	76.6	137.0	166.2	0.0	0.08	6.8	
4155	1:09:15	76.6	137.2	166.3	0.0	0.08	6.8	
4170	1:09:30	76.8	137.3	166.6	0.0	0.08	6.8	
4185	1:09:45	76.4	137.6	166.9	0.0	0.08	6.8	
4200	1:10:00	76.0	137.7	167.2	0.0	0.08	6.8	System Low NOx IN
4215	1:10:15	76.0	137.9	167.6	0.0	0.08	6.8	
4230	1:10:30	75.8	138.2	167.8	0.0	0.08	6.8	
4245	1:10:45	75.3	138.2	167.9	0.0	0.09	6.8	
4260	1:11:00	75.2	138.6	168.1	0.0	0.09	6.8	
4275	1:11:15	75.0	138.8	168.3	0.0	0.09	6.8	
4290	1:11:30	76.3	138.9	168.6	0.0	0.09	6.8	
4305	1:11:45	75.8	139.1	169.0	0.0	0.09	6.7	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
4320	1:12:00	76.1	139.2	169.0	0.0	0.09	6.7
4335	1:12:15	76.3	139.3	169.3	0.0	0.09	4.2
4350	1:12:30	76.6	139.5	169.3	0.0	0.09	1.7
4365	1:12:45	76.6	139.6	169.6	0.0	0.09	0.2
4380	1:13:00	77.0	139.8	169.8	0.0	0.09	0.2
4395	1:13:15	77.0	139.9	169.8	0.0	0.09	0.1
4410	1:13:30	77.0	139.9	170.2	0.0	0.09	0.1
4425	1:13:45	75.8	140.1	170.5	0.0	0.09	0.1
4440	1:14:00	75.4	140.2	170.8	0.0	0.09	0.3
4455	1:14:15	75.5	140.3	170.9	3.3	0.15	0.3
4470	1:14:30	75.4	140.5	171.0	2.3	5.83	0.2
4485	1:14:45	75.5	140.7	171.2	0.0	7.18	2.4
4500	1:15:00	75.7	140.8	171.3	0.0	7.29	2.7
4515	1:15:15	75.7	140.9	171.3	0.0	7.31	3.1
4530	1:15:30	75.5	141.0	171.5	0.0	7.32	3.2
4545	1:15:45	75.7	141.1	171.6	0.0	7.34	3.2
4560	1:16:00	75.7	141.1	171.7	0.0	7.34	3.3
4575	1:16:15	75.5	141.3	172.0	0.0	7.33	3.3
4590	1:16:30	75.6	141.4	172.1	0.0	7.33	3.3
4605	1:16:45	75.5	141.6	172.0	0.0	7.34	3.4
4620	1:17:00	75.8	141.7	171.5	0.0	7.22	3.4
4635	1:17:15	75.7	141.7	171.3	0.0	7.21	3.3
4650	1:17:30	75.7	141.5	171.4	0.0	7.21	3.1
4665	1:17:45	75.8	141.2	171.2	0.0	7.21	3.2
4680	1:18:00	75.9	141.2	171.2	0.0	7.19	3.2
4695	1:18:15	75.7	141.1	171.1	0.0	7.19	3.1
4710	1:18:30	75.7	141.0	171.3	0.0	7.19	3.1
4725	1:18:45	75.8	141.0	171.3	0.0	7.18	3.1
4740	1:19:00	76.1	141.8	171.3	0.0	7.17	3.1
4755	1:19:15	75.9	141.9	171.3	0.0	7.19	3.1
4770	1:19:30	75.7	142.2	171.4	0.0	7.18	3.1
4785	1:19:45	75.7	142.2	171.2	0.0	7.18	3.1
4800	1:20:00	75.7	142.3	171.2	0.0	7.19	3.1
4815	1:20:15	75.7	142.3	171.5	0.0	7.18	3.1
4830	1:20:30	75.5	142.3	171.7	0.0	7.17	3.1
4845	1:20:45	75.6	142.8	172.0	0.0	7.17	3.1
4860	1:21:00	75.5	143.2	172.2	0.0	7.17	3.1
4875	1:21:15	75.5	143.3	172.4	0.0	7.18	3.1
4890	1:21:30	75.6	143.5	172.6	0.0	7.18	3.1
4905	1:21:45	75.4	143.5	172.6	0.0	7.17	3.1
4920	1:22:00	75.5	143.8	172.8	0.0	7.18	3.1
4935	1:22:15	75.6	143.7	173.0	0.0	7.18	3.1
4950	1:22:30	75.8	143.9	173.2	0.0	7.18	3.1
4965	1:22:45	75.9	144.1	173.5	0.0	7.19	3.1
4980	1:23:00	75.9	144.2	173.7	0.0	7.20	3.1
4995	1:23:15	76.1	144.4	174.0	0.0	7.18	3.1
5010	1:23:30	75.9	144.6	174.1	0.0	7.19	3.1
5025	1:23:45	76.0	144.7	174.3	0.0	7.19	3.1

Comments

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5040	1:24:00	76.1	144.8	174.5	0.0	7.19	3.1
5055	1:24:15	76.1	144.9	174.6	0.0	7.21	3.1
5070	1:24:30	76.5	145.0	174.6	0.0	7.21	3.2
5085	1:24:45	77.2	145.1	174.8	0.0	7.21	3.2
5100	1:25:00	78.0	145.2	175.0	0.0	7.22	3.2
5115	1:25:15	78.7	145.1	175.0	0.0	7.23	3.2
5130	1:25:30	78.6	145.4	175.2	0.0	7.23	3.2
5145	1:25:45	78.9	145.5	175.2	0.0	7.22	3.2
5160	1:26:00	79.5	145.5	175.5	0.0	7.23	3.2
5175	1:26:15	79.3	145.4	175.5	0.0	7.23	3.2
5190	1:26:30	79.1	145.6	175.6	0.0	7.23	3.3
5205	1:26:45	79.1	145.7	175.6	0.0	7.21	3.2
5220	1:27:00	79.4	145.8	175.7	0.0	7.22	3.2
5235	1:27:15	79.5	145.8	175.9	0.0	7.21	3.2
5250	1:27:30	79.8	145.9	176.0	0.0	7.21	3.2
5265	1:27:45	79.9	146.1	176.0	0.0	7.20	3.2
5280	1:28:00	79.7	146.1	176.2	0.0	7.21	3.2
5295	1:28:15	80.1	146.1	176.3	0.0	7.21	3.2
5310	1:28:30	80.5	146.1	176.4	0.0	7.21	3.2
5325	1:28:45	80.1	146.3	176.5	0.0	7.21	3.2
5340	1:29:00	79.7	146.6	176.8	0.0	7.22	3.2
5355	1:29:15	79.4	146.9	176.8	0.0	7.21	3.2
5370	1:29:30	79.2	147.0	176.9	0.0	7.20	3.2
5385	1:29:45	79.8	147.2	176.9	0.0	7.20	3.2
5400	1:30:00	79.8	147.3	177.1	0.0	7.20	3.2
5415	1:30:15	79.9	147.3	177.2	0.0	7.20	3.2
5430	1:30:30	79.9	147.4	177.5	0.0	7.20	3.2
5445	1:30:45	80.2	147.6	177.8	0.0	7.21	3.2
5460	1:31:00	80.2	147.7	177.7	0.0	7.19	3.2
5475	1:31:15	80.0	147.7	177.9	0.0	7.19	3.2
5490	1:31:30	80.7	147.9	178.1	0.0	7.20	3.2
5505	1:31:45	80.2	147.9	178.4	0.0	7.21	3.2
5520	1:32:00	80.1	148.1	178.3	0.0	7.20	3.2
5535	1:32:15	79.9	148.1	178.5	0.0	7.20	3.2
5550	1:32:30	79.8	148.3	178.7	0.0	7.20	3.2
5565	1:32:45	79.5	148.4	178.8	0.0	7.21	3.2
5580	1:33:00	79.9	148.4	178.9	0.0	7.21	3.2
5595	1:33:15	80.1	148.5	179.3	0.0	7.22	3.2
5610	1:33:30	80.3	148.4	179.1	0.0	7.22	3.2
5625	1:33:45	80.3	148.5	179.4	0.0	7.23	3.2
5640	1:34:00	80.4	148.6	179.4	0.0	7.23	3.3
5655	1:34:15	80.5	148.7	179.6	0.0	7.22	3.3
5670	1:34:30	79.8	148.7	179.6	0.0	7.22	3.3
5685	1:34:45	80.9	148.8	179.7	0.0	7.22	3.3
5700	1:35:00	80.7	148.9	179.7	0.0	7.21	3.2
5715	1:35:15	80.7	149.1	179.7	0.0	7.22	3.2
5730	1:35:30	80.4	149.0	179.9	0.0	7.23	3.3
5745	1:35:45	80.0	149.0	179.8	0.0	7.22	3.3

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5760	1:36:00	80.0	149.0	180.1	0.0	7.22	3.3	Start Low Fire Equilibrium - #2
5775	1:36:15	80.1	149.2	180.1	0.0	7.23	3.3	
5790	1:36:30	79.6	149.2	180.2	0.0	7.23	3.3	
5805	1:36:45	80.1	149.3	180.3	0.0	7.23	3.3	
5820	1:37:00	80.4	149.4	180.5	0.0	7.23	3.3	
5835	1:37:15	80.3	149.4	180.4	0.0	7.23	3.3	
5850	1:37:30	80.2	149.5	180.5	0.0	7.23	3.3	
5865	1:37:45	79.8	149.6	180.6	0.0	7.23	3.3	
5880	1:38:00	79.8	149.3	180.5	0.0	7.23	3.3	
5895	1:38:15	79.2	149.0	180.7	0.0	7.24	3.3	
5910	1:38:30	79.7	149.2	180.7	0.0	7.24	3.3	
5925	1:38:45	80.0	149.4	180.4	0.0	7.23	3.3	
5940	1:39:00	79.8	149.3	180.4	0.0	7.24	3.3	
5955	1:39:15	80.0	149.4	180.4	0.0	7.26	3.3	
5970	1:39:30	79.5	149.3	180.1	0.0	7.25	3.3	
5985	1:39:45	79.5	149.3	180.2	0.0	7.24	3.3	
6000	1:40:00	79.7	149.2	180.4	0.0	7.27	3.3	
6015	1:40:15	79.9	149.1	180.3	0.0	7.27	3.3	
6030	1:40:30	80.1	149.1	180.3	0.0	7.26	3.4	
6045	1:40:45	79.9	149.1	180.3	0.0	7.27	3.3	
6060	1:41:00	79.7	149.1	180.1	0.0	7.27	3.4	End Low Fire Equilibrium - #2
6075	1:41:15	79.7	149.2	180.2	0.0	7.24	3.4	
6090	1:41:30	80.5	149.1	180.1	0.0	7.27	3.3	
6105	1:41:45	80.6	149.1	180.2	0.0	7.26	3.4	Start Test - Low Fire - #2
6120	1:42:00	80.7	149.1	180.0	0.0	7.26	3.4	
6135	1:42:15	80.2	149.1	180.1	0.0	7.25	3.3	
6150	1:42:30	80.2	149.1	180.1	0.0	7.25	3.3	
6165	1:42:45	80.1	149.1	180.0	0.0	7.27	3.3	
6180	1:43:00	79.7	149.2	180.1	0.0	7.28	3.4	
6195	1:43:15	79.9	149.1	180.1	0.0	7.28	3.4	
6210	1:43:30	79.7	149.1	180.1	0.0	7.28	3.4	
6225	1:43:45	79.5	149.1	180.2	0.0	7.27	3.4	
6240	1:44:00	79.6	149.1	180.2	0.0	7.27	3.4	
6255	1:44:15	79.9	149.1	180.1	0.0	7.27	3.4	
6270	1:44:30	80.1	149.2	180.2	0.0	7.27	3.4	
6285	1:44:45	80.1	149.2	180.1	0.0	7.27	3.4	
6300	1:45:00	80.1	149.1	180.1	0.0	7.27	3.4	
6315	1:45:15	80.4	149.1	180.0	0.0	7.27	3.4	
6330	1:45:30	80.3	149.1	180.1	0.0	7.27	3.4	
6345	1:45:45	80.2	149.1	180.1	0.0	7.27	3.4	
6360	1:46:00	80.3	149.1	180.1	0.0	7.27	3.4	
6375	1:46:15	80.0	149.1	180.1	0.0	7.27	3.4	
6390	1:46:30	79.7	149.1	180.2	0.0	7.27	3.4	
6405	1:46:45	79.4	149.1	180.1	0.0	7.28	3.4	
6420	1:47:00	79.7	149.2	180.1	0.0	7.26	3.4	
6435	1:47:15	79.8	149.2	180.2	0.0	7.28	3.4	
6450	1:47:30	79.8	149.1	180.2	0.0	7.28	3.4	
6465	1:47:45	79.7	149.1	180.1	0.0	7.28	3.4	

Manufacturer: RIELLO
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Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
6480	1:48:00	79.5	149.1	180.2	0.0	7.27	3.4
6495	1:48:15	79.8	149.1	180.1	0.0	7.28	3.4
6510	1:48:30	79.7	149.2	180.2	0.0	7.27	3.5
6525	1:48:45	80.0	149.1	180.2	0.0	7.27	3.4
6540	1:49:00	79.9	149.2	180.1	0.0	7.27	3.4
6555	1:49:15	79.8	149.2	180.1	0.0	7.27	3.3
6570	1:49:30	79.6	149.2	180.4	0.0	7.26	3.3
6585	1:49:45	79.7	149.2	180.2	0.0	7.26	3.3
6600	1:50:00	79.3	149.2	180.1	0.0	7.26	3.3
6615	1:50:15	79.9	149.2	180.3	0.0	7.25	3.3
6630	1:50:30	79.7	149.3	180.2	0.0	7.25	3.3
6645	1:50:45	79.6	149.3	180.2	0.0	7.26	3.3
6660	1:51:00	80.6	149.3	180.2	0.0	7.27	3.3
6675	1:51:15	80.3	149.2	180.3	0.0	7.26	3.3
6690	1:51:30	80.6	149.3	180.2	0.0	7.26	3.3
6705	1:51:45	80.6	149.2	180.3	0.0	7.26	3.3
6720	1:52:00	80.7	149.3	180.2	0.0	7.26	3.3
6735	1:52:15	80.7	149.3	180.4	0.0	7.27	3.3
6750	1:52:30	80.7	149.3	180.1	0.0	7.26	3.3
6765	1:52:45	80.4	149.2	180.0	0.0	7.26	3.3
6780	1:53:00	80.4	149.2	180.3	0.0	7.25	3.3
6795	1:53:15	80.3	149.3	180.2	0.0	7.27	3.3
6810	1:53:30	79.9	149.3	180.4	0.0	7.27	3.3
6825	1:53:45	79.5	149.3	180.5	0.0	7.26	3.3
6840	1:54:00	79.7	149.3	180.3	0.0	7.24	3.3
6855	1:54:15	80.0	149.3	180.5	0.0	7.24	3.3
6870	1:54:30	80.3	149.3	180.3	0.0	7.23	3.3
6885	1:54:45	79.7	149.3	180.3	0.0	7.24	3.3
6900	1:55:00	79.4	149.3	180.4	0.0	7.25	3.3
6915	1:55:15	79.5	149.2	180.5	0.0	7.25	3.3
6930	1:55:30	80.0	149.3	180.6	0.0	7.26	3.2
6945	1:55:45	80.2	149.4	180.5	0.0	7.26	3.3
6960	1:56:00	80.2	149.5	180.6	0.0	7.27	3.3
6975	1:56:15	80.8	149.5	180.5	0.0	7.27	3.3
6990	1:56:30	81.0	149.5	180.6	0.0	7.27	3.3
7005	1:56:45	80.7	149.4	180.5	0.0	7.26	3.3
7020	1:57:00	80.4	149.5	180.6	0.0	7.26	3.3
7035	1:57:15	80.0	149.6	180.5	0.0	7.26	3.3
7050	1:57:30	79.7	149.5	180.6	0.0	7.26	3.3
7065	1:57:45	79.6	149.5	180.7	0.0	7.24	3.3
7080	1:58:00	79.7	149.5	180.6	0.0	7.25	3.3
7095	1:58:15	80.8	149.5	180.7	0.0	7.25	3.2
7110	1:58:30	79.9	149.5	180.7	0.0	7.24	3.3
7125	1:58:45	80.6	149.6	180.7	0.0	7.23	3.2
7140	1:59:00	80.7	149.5	180.6	0.0	7.24	3.2
7155	1:59:15	80.3	149.5	180.5	0.0	7.25	3.2
7170	1:59:30	79.9	149.5	180.6	0.0	7.24	3.3
7185	1:59:45	79.7	149.6	180.5	0.0	7.24	3.2

Comments

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7200	2:00:00	79.9	149.6	180.6	0.0	7.24	3.2	
7215	2:00:15	80.0	149.6	180.7	0.0	7.23	3.2	
7230	2:00:30	80.1	149.5	180.7	0.0	7.26	3.2	
7245	2:00:45	80.0	149.5	180.7	0.0	7.24	3.3	
7260	2:01:00	80.1	149.5	180.8	0.0	7.24	3.3	
7275	2:01:15	80.0	149.5	180.8	0.0	7.24	3.2	
7290	2:01:30	80.2	149.6	180.7	0.0	7.24	3.2	
7305	2:01:45	80.3	149.5	180.7	0.0	7.24	3.2	
7320	2:02:00	80.4	149.6	180.7	0.0	7.25	3.2	
7335	2:02:15	80.6	149.7	181.0	0.0	7.25	3.3	
7350	2:02:30	80.8	149.7	180.8	0.0	7.27	3.3	
7365	2:02:45	80.8	149.7	180.8	0.0	7.28	3.3	
7380	2:03:00	80.8	149.7	180.8	0.0	7.27	3.3	
7395	2:03:15	80.6	149.7	180.7	0.0	7.26	3.3	
7410	2:03:30	80.4	149.7	180.7	0.0	7.26	3.3	
7425	2:03:45	80.6	149.6	180.7	0.0	7.26	3.3	
7440	2:04:00	80.7	149.6	180.8	0.0	7.27	3.3	
7455	2:04:15	80.6	149.7	180.8	0.0	7.27	3.3	
7470	2:04:30	80.6	149.6	180.8	0.0	7.26	3.3	
7485	2:04:45	80.6	149.7	180.9	0.0	7.26	3.3	
7500	2:05:00	80.0	149.6	180.8	0.0	7.27	3.3	
7515	2:05:15	79.8	149.7	181.0	0.0	7.26	3.2	
7530	2:05:30	79.8	149.7	180.9	0.0	7.26	3.2	
7545	2:05:45	80.4	149.7	180.9	0.0	7.26	3.2	
7560	2:06:00	80.8	149.8	180.8	0.0	7.26	3.2	
7575	2:06:15	81.2	149.8	180.8	0.0	7.27	3.2	
7590	2:06:30	81.6	149.7	180.9	0.0	7.27	3.3	
7605	2:06:45	81.5	149.7	180.8	0.0	7.26	3.3	
7620	2:07:00	81.5	149.7	180.7	0.0	7.27	3.3	
7635	2:07:15	81.7	149.7	180.7	0.0	7.27	3.3	
7650	2:07:30	81.1	149.7	180.8	0.0	7.27	3.3	
7665	2:07:45	80.2	149.7	180.8	0.0	7.27	3.2	
7680	2:08:00	80.1	149.8	181.0	0.0	7.27	3.2	
7695	2:08:15	80.5	149.8	181.1	0.0	7.27	3.2	
7710	2:08:30	80.9	149.7	180.8	0.0	7.26	3.2	
7725	2:08:45	80.2	149.7	180.9	0.0	7.27	3.2	
7740	2:09:00	80.1	149.8	181.0	0.0	7.26	3.2	Start Emissions
7755	2:09:15	80.0	149.9	181.0	0.0	7.25	3.2	
7770	2:09:30	80.4	149.9	181.0	0.0	7.26	3.2	
7785	2:09:45	80.0	149.9	181.0	0.0	7.26	3.2	
7800	2:10:00	80.3	149.9	181.1	0.0	7.26	3.2	1st Minute
7815	2:10:15	80.6	150.0	181.2	0.0	7.26	3.2	
7830	2:10:30	80.9	150.0	180.9	0.0	7.27	3.2	
7845	2:10:45	81.3	149.9	181.0	0.0	7.27	3.2	
7860	2:11:00	81.0	149.8	181.0	0.0	7.26	3.2	2nd Minute
7875	2:11:15	80.7	149.9	180.8	0.0	7.26	3.2	
7890	2:11:30	80.9	150.0	181.1	0.0	7.25	3.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7905	2:11:45	80.5	149.9	181.0	0.0	7.25	3.2	3rd Minute / EOT - Low Fire - #2
7920	2:12:00	80.0	150.0	181.3	0.0	7.26	3.2	
7935	2:12:15	80.0	149.9	181.1	0.0	7.26	3.2	CO2 (Avg) % = 7.26
7950	2:12:30	80.2	150.1	181.2	0.0	7.27	3.2	
7965	2:12:45	79.7	150.1	181.1	0.0	7.27	3.2	NOx (Avg) ppm = 3.2
7980	2:13:00	80.0	150.2	181.2	0.0	7.26	3.2	
7995	2:13:15	79.9	150.1	181.2	0.0	7.26	3.2	CO (Max) ppm = 0.0
8010	2:13:30	80.1	150.2	181.2	0.0	7.27	3.2	
8025	2:13:45	80.3	150.1	181.3	0.0	7.26	3.2	Ambient (Avg) F = 80.2
8040	2:14:00	80.3	150.2	181.1	0.0	7.25	3.2	
8055	2:14:15	80.5	150.1	181.1	0.0	7.26	3.2	T_In (Avg) F = 149.5
8070	2:14:30	80.1	150.2	181.2	0.0	7.27	3.2	
8085	2:14:45	80.3	150.1	181.1	0.0	7.26	3.2	T_Del (Avg) F = 180.5
8100	2:15:00	80.4	150.1	181.1	0.0	7.25	3.2	
8115	2:15:15	80.5	150.1	181.1	0.0	7.25	3.2	
8130	2:15:30	80.6	150.0	181.1	0.0	7.24	3.2	
8145	2:15:45	80.6	150.1	181.2	0.0	7.24	3.2	
8160	2:16:00	80.4	150.1	181.3	0.0	7.23	3.2	
8175	2:16:15	80.7	150.1	181.2	0.0	7.23	3.2	
8190	2:16:30	80.8	150.0	181.1	0.0	7.23	3.2	
8205	2:16:45	81.0	150.1	181.2	0.0	7.24	3.2	
8220	2:17:00	81.1	150.0	181.1	0.0	7.25	3.2	
8235	2:17:15	81.3	150.0	181.1	0.0	7.26	3.2	
8250	2:17:30	80.7	150.1	181.3	0.0	7.25	3.2	
8265	2:17:45	80.8	150.0	181.3	0.0	7.26	3.2	
8280	2:18:00	80.6	150.0	181.1	0.0	7.27	3.2	
8295	2:18:15	80.8	150.1	181.3	0.0	7.26	3.3	
8310	2:18:30	81.1	150.0	181.2	0.0	7.25	3.3	
8325	2:18:45	81.2	150.0	181.1	0.0	7.26	3.2	
8340	2:19:00	81.5	150.1	181.2	0.0	7.26	3.2	
8355	2:19:15	81.8	150.1	178.7	0.0	7.26	3.2	
8370	2:19:30	81.7	149.5	172.4	6.5	1.92	3.2	
8385	2:19:45	82.2	149.1	168.5	0.0	0.20	1.4	
8400	2:20:00	82.4	148.8	162.0	0.0	0.13	1.0	
8415	2:20:15	82.7	133.9	157.6	0.0	0.10	0.7	
8430	2:20:30	83.5	105.5	154.9	0.0	0.09	0.7	
8445	2:20:45	83.6	90.4	153.4	0.0	0.09	0.7	
8460	2:21:00	83.3	82.6	152.6	0.0	0.09	0.7	
8475	2:21:15	82.9	78.4	152.0	0.0	0.09	0.6	
8490	2:21:30	82.7	76.0	151.7	0.0	0.09	0.6	
8505	2:21:45	82.8	74.2	151.4	0.0	0.10	0.6	
8520	2:22:00	82.0	73.0	151.0	0.0	0.10	0.6	
8535	2:22:15	82.7	72.2	150.8	0.0	0.09	0.6	
8550	2:22:30	83.0	71.6	150.1	0.0	0.09	0.6	
8565	2:22:45	82.1	71.0	147.3	0.0	0.09	0.5	
8580	2:23:00	81.9	70.6	141.4	0.0	0.09	0.5	
8595	2:23:15	82.2	70.4	131.3	0.0	0.09	0.5	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
8610	2:23:30	81.6	70.0	123.0	0.0	0.09	0.5
8625	2:23:45	81.4	69.8	114.6	0.0	0.08	0.4
8640	2:24:00	81.7	69.5	106.2	0.0	0.08	0.4
8655	2:24:15	81.3	69.4	97.8	0.0	0.08	0.4
8670	2:24:30	81.3	69.1	90.2	0.0	0.08	0.4
8685	2:24:45	82.4	69.0	84.1	0.0	0.07	0.4
8700	2:25:00	82.4	68.8	80.0	0.0	0.07	0.4
8715	2:25:15	81.9	68.7	77.3	0.0	0.07	0.4
8730	2:25:30	81.3	68.7	75.5	0.0	0.07	0.3
8745	2:25:45	81.4	68.6	74.2	0.0	0.07	0.3
8760	2:26:00	80.9	68.5	73.3	0.0	0.07	0.3
8775	2:26:15	80.9	68.4	72.6	0.0	0.07	0.3
8790	2:26:30	81.7	68.3	72.1	0.0	0.07	0.3
8805	2:26:45	81.8	68.2	71.6	0.0	0.07	0.3
8820	2:27:00	81.2	68.2	71.3	0.0	0.07	0.3
8835	2:27:15	80.2	68.1	71.0	0.0	0.06	0.3
8850	2:27:30	81.1	68.0	70.8	0.0	0.06	0.3
8865	2:27:45	81.1	68.0	70.6	0.0	0.06	0.2
8880	2:28:00	81.7	68.0	70.5	0.0	0.06	0.2
8895	2:28:15	82.7	67.9	70.3	0.0	0.06	0.2
8910	2:28:30	82.2	67.8	70.2	0.0	0.06	0.2
8925	2:28:45	81.9	67.8	70.0	0.0	0.06	0.2
8940	2:29:00	81.3	67.7	69.9	0.0	0.06	0.2
8955	2:29:15	81.8	67.6	69.7	0.0	0.06	0.2
8970	2:29:30	81.9	67.6	69.7	0.0	0.06	0.2
8985	2:29:45	82.1	67.6	69.6	0.0	0.06	0.2
9000	2:30:00	81.2	67.5	69.5	0.0	0.06	0.2
9015	2:30:15	80.7	67.6	69.5	0.0	0.06	0.2
9030	2:30:30	80.3	67.6	69.5	0.0	0.06	0.2
9045	2:30:45	80.5	67.6	69.4	0.0	0.06	0.2
9060	2:31:00	80.8	67.6	69.3	0.0	0.06	0.2
9075	2:31:15	80.9	67.5	69.2	0.0	0.06	0.2
9090	2:31:30	81.2	67.5	69.1	0.0	0.06	0.2
9105	2:31:45	81.8	67.5	69.1	0.0	0.06	0.2
9120	2:32:00	82.3	67.5	69.0	0.0	0.06	0.2
9135	2:32:15	81.8	67.4	68.9	0.0	0.06	0.2
9150	2:32:30	82.5	67.4	68.9	0.0	0.06	0.2
9165	2:32:45	82.5	67.3	68.8	0.0	0.05	0.2
9180	2:33:00	82.6	74.9	68.6	0.0	0.05	0.2
9195	2:33:15	83.0	70.2	68.5	0.0	0.05	0.2
9210	2:33:30	82.9	68.9	76.4	0.0	0.05	0.2
9225	2:33:45	82.8	68.4	97.9	77.1	6.26	0.1
9240	2:34:00	82.4	71.2	115.0	23.0	8.21	1.8
9255	2:34:15	82.4	79.7	118.2	15.0	8.48	6.0
9270	2:34:30	82.9	88.1	116.4	7.0	8.38	8.4
9285	2:34:45	82.5	91.9	115.4	3.3	8.33	8.1
9300	2:35:00	82.7	92.7	115.4	1.2	8.32	8.2
9315	2:35:15	82.9	92.8	118.3	0.1	8.28	8.2

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
9330	2:35:30	82.4	93.0	122.5	0.0	8.25	8.1
9345	2:35:45	82.4	94.4	126.5	0.0	8.24	7.9
9360	2:36:00	82.1	96.3	129.6	0.0	8.24	7.9
9375	2:36:15	81.6	98.3	131.4	0.0	8.21	7.7
9390	2:36:30	81.3	100.0	132.4	0.0	8.21	7.6
9405	2:36:45	81.0	101.3	133.3	0.0	8.20	7.7
9420	2:37:00	81.9	102.1	134.5	0.0	8.21	7.8
9435	2:37:15	82.0	102.8	136.0	0.0	8.21	7.8
9450	2:37:30	82.3	103.5	137.5	0.0	8.21	7.8
9465	2:37:45	82.5	104.3	139.2	0.0	8.20	8.0
9480	2:38:00	83.2	105.2	140.1	0.0	8.21	8.0
9495	2:38:15	83.5	106.0	141.1	0.0	8.24	8.1
9510	2:38:30	83.9	106.7	141.8	0.0	8.24	8.2
9525	2:38:45	84.4	107.4	142.7	0.0	8.24	8.3
9540	2:39:00	84.6	107.8	143.4	0.0	8.27	8.4
9555	2:39:15	84.8	108.3	143.7	0.0	8.26	8.6
9570	2:39:30	85.0	108.7	144.1	0.0	8.24	8.7
9585	2:39:45	84.9	109.0	144.5	0.0	8.26	8.4
9600	2:40:00	84.9	109.2	144.9	0.0	8.27	8.5
9615	2:40:15	84.2	109.5	145.6	0.0	8.27	8.7
9630	2:40:30	83.9	109.7	146.1	0.0	8.26	8.7
9645	2:40:45	83.1	110.1	146.7	0.0	8.24	8.8
9660	2:41:00	84.9	113.2	147.9	0.0	8.23	8.7
9675	2:41:15	86.1	114.4	145.4	0.0	8.24	8.6
9690	2:41:30	85.8	115.2	142.4	0.0	7.87	8.6
9705	2:41:45	84.8	114.5	141.5	0.0	7.72	6.1
9720	2:42:00	83.9	113.3	142.0	0.0	7.68	5.9
9735	2:42:15	82.8	112.4	142.7	0.0	7.66	5.6
9750	2:42:30	83.2	112.3	143.5	0.0	7.66	5.5
9765	2:42:45	82.9	112.6	144.0	0.0	7.67	5.4
9780	2:43:00	82.1	113.0	144.0	0.0	7.67	5.4
9795	2:43:15	82.4	113.3	143.8	0.0	7.68	5.4
9810	2:43:30	83.8	113.5	143.5	0.0	7.69	5.3
9825	2:43:45	84.6	113.3	143.1	0.0	7.68	5.4
9840	2:44:00	84.8	113.3	143.3	0.0	7.69	5.3
9855	2:44:15	85.2	113.1	143.6	0.0	7.70	5.3
9870	2:44:30	84.9	113.0	144.0	0.0	7.72	5.3
9885	2:44:45	85.0	113.3	144.1	0.0	7.72	5.4
9900	2:45:00	84.7	113.3	144.2	0.0	7.74	5.4
9915	2:45:15	84.5	113.4	144.2	0.0	7.74	5.4
9930	2:45:30	85.1	113.5	144.2	0.0	7.75	5.4
9945	2:45:45	84.7	113.6	144.3	0.0	7.75	5.5
9960	2:46:00	84.6	113.6	144.4	0.0	7.76	5.4
9975	2:46:15	84.8	113.7	144.6	0.0	7.75	5.4
9990	2:46:30	85.3	115.4	145.6	0.0	7.74	5.4
10005	2:46:45	85.7	117.3	146.2	0.0	7.75	5.4
10020	2:47:00	87.2	118.0	146.5	0.0	7.74	5.4
10035	2:47:15	87.1	118.6	146.5	0.0	7.75	5.3

Comments

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
10050	2:47:30	86.6	118.8	146.9	0.0	7.76	5.3
10065	2:47:45	85.6	119.0	147.8	0.0	7.76	5.4
10080	2:48:00	84.8	119.3	148.7	0.0	7.75	5.4
10095	2:48:15	84.7	119.7	149.5	0.0	7.74	5.4
10110	2:48:30	83.9	120.3	150.1	0.0	7.73	5.3
10125	2:48:45	84.1	120.8	150.8	0.0	7.73	5.2
10140	2:49:00	84.1	121.2	151.3	0.0	7.73	5.2
10155	2:49:15	84.3	121.7	151.6	0.0	7.76	5.3
10170	2:49:30	84.2	122.1	151.9	0.0	7.72	5.4
10185	2:49:45	83.9	122.4	152.1	0.0	7.69	5.1
10200	2:50:00	83.0	122.7	152.8	0.0	7.71	5.1
10215	2:50:15	83.5	122.8	153.3	0.0	7.72	5.1
10230	2:50:30	83.8	123.2	153.9	0.0	7.74	5.2
10245	2:50:45	83.6	123.6	154.5	0.0	7.77	5.3
10260	2:51:00	84.0	124.0	154.8	0.0	7.78	5.3
10275	2:51:15	85.4	124.5	155.3	0.0	7.80	5.4
10290	2:51:30	85.7	124.8	155.8	0.0	7.80	5.5
10305	2:51:45	86.1	126.1	156.5	0.0	7.81	5.5
10320	2:52:00	85.5	127.1	157.1	0.0	7.80	5.5
10335	2:52:15	84.9	127.6	157.6	0.0	7.81	5.6
10350	2:52:30	85.3	128.1	158.1	0.0	7.83	5.6
10365	2:52:45	86.1	128.6	158.6	0.0	7.83	5.7
10380	2:53:00	85.5	128.8	159.2	0.0	7.84	5.7
10395	2:53:15	85.1	129.3	159.0	0.0	7.82	5.7
10410	2:53:30	84.5	129.6	158.8	0.0	7.69	5.7
10425	2:53:45	84.4	129.8	158.9	0.0	7.65	5.0
10440	2:54:00	84.3	129.8	159.4	0.0	7.64	5.0
10455	2:54:15	84.5	129.8	159.8	0.0	7.64	4.9
10470	2:54:30	85.0	130.0	160.1	0.0	7.66	4.9
10485	2:54:45	86.3	130.4	160.5	0.0	7.67	4.9
10500	2:55:00	86.9	130.6	160.8	0.0	7.67	5.0
10515	2:55:15	86.8	130.9	161.1	0.0	7.66	4.9
10530	2:55:30	86.7	131.1	161.2	0.0	7.68	4.9
10545	2:55:45	87.4	131.3	161.6	0.0	7.69	5.0
10560	2:56:00	87.5	131.5	161.5	0.0	7.70	5.0
10575	2:56:15	87.5	131.7	161.5	0.0	7.66	5.0
10590	2:56:30	87.3	131.7	161.7	0.0	7.66	5.0
10605	2:56:45	87.3	131.8	162.1	0.0	7.67	4.9
10620	2:57:00	86.8	131.9	161.9	0.0	7.68	4.9
10635	2:57:15	86.8	132.0	161.8	0.0	7.62	4.9
10650	2:57:30	86.7	132.1	161.9	0.0	7.59	4.7
10665	2:57:45	86.8	132.1	162.2	0.0	7.61	4.7
10680	2:58:00	86.4	132.1	162.3	0.0	7.59	4.7
10695	2:58:15	87.3	132.7	162.9	0.0	7.60	4.6
10710	2:58:30	87.3	133.4	163.2	0.0	7.64	4.6
10725	2:58:45	87.3	133.8	162.7	0.0	7.65	4.8
10740	2:59:00	86.5	134.1	162.2	0.0	7.53	4.7
10755	2:59:15	86.5	134.2	161.9	0.0	7.50	4.4

Comments

Manufacturer: RIELLO
Model No.: SSB 512

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
10770	2:59:30	86.8	133.8	162.3	0.0	7.48	4.3
10785	2:59:45	87.2	133.6	162.8	0.0	7.50	4.2
10800	3:00:00	86.3	133.6	163.1	0.0	7.52	4.2
10815	3:00:15	86.0	133.9	163.7	0.0	7.51	4.3
10830	3:00:30	86.2	134.1	163.9	0.0	7.51	4.3
10845	3:00:45	86.4	134.5	163.9	0.0	7.52	4.3
10860	3:01:00	86.4	134.8	164.1	0.0	7.51	4.3
10875	3:01:15	86.5	134.9	164.1	0.0	7.53	4.3
10890	3:01:30	86.8	134.9	164.3	0.0	7.55	4.3
10905	3:01:45	86.6	135.0	164.6	0.0	7.56	4.4
10920	3:02:00	87.0	135.1	164.9	0.0	7.55	4.4
10935	3:02:15	87.2	135.3	165.2	0.0	7.56	4.4
10950	3:02:30	87.4	135.5	165.5	0.0	7.60	4.4
10965	3:02:45	87.5	136.6	166.1	0.0	7.59	4.5
10980	3:03:00	87.5	137.4	166.4	0.0	7.61	4.5
10995	3:03:15	87.5	137.9	166.5	0.0	7.60	4.5
11010	3:03:30	87.2	138.2	166.7	0.0	7.60	4.5
11025	3:03:45	87.3	138.4	167.1	0.0	7.60	4.6
11040	3:04:00	86.9	138.7	167.9	0.0	7.61	4.5
11055	3:04:15	86.5	138.8	168.6	0.0	7.61	4.5
11070	3:04:30	86.7	139.2	168.7	0.0	7.62	4.5
11085	3:04:45	86.9	139.6	169.0	0.0	7.59	4.6
11100	3:05:00	86.7	140.0	169.5	0.0	7.54	4.5
11115	3:05:15	86.9	140.9	169.7	0.0	7.53	4.3
11130	3:05:30	87.1	141.3	170.4	0.0	7.53	4.3
11145	3:05:45	87.0	141.8	170.7	0.0	7.55	4.3
11160	3:06:00	86.8	142.3	171.2	0.0	7.54	4.3
11175	3:06:15	87.0	142.5	171.7	0.0	7.53	4.3
11190	3:06:30	87.4	142.8	172.1	0.0	7.54	4.3
11205	3:06:45	87.3	143.2	172.8	0.0	7.55	4.2
11220	3:07:00	87.1	143.5	173.1	0.0	7.54	4.3
11235	3:07:15	87.1	144.0	173.6	0.0	7.54	4.2
11250	3:07:30	86.4	144.3	174.1	0.0	7.54	4.2
11265	3:07:45	85.1	144.7	174.8	0.0	7.54	4.3
11280	3:08:00	83.6	144.9	175.1	0.0	7.54	4.3
11295	3:08:15	83.2	145.3	175.5	0.0	7.53	4.3
11310	3:08:30	82.6	145.7	175.8	0.0	7.53	4.3
11325	3:08:45	81.5	146.0	176.2	0.0	7.53	4.2
11340	3:09:00	81.3	146.3	176.8	0.0	7.52	4.2
11355	3:09:15	81.2	146.6	177.3	0.0	7.52	4.2
11370	3:09:30	81.4	146.9	177.6	0.0	7.52	4.2
11385	3:09:45	80.8	147.2	177.9	0.0	7.53	4.2
11400	3:10:00	80.7	147.6	178.5	0.0	7.53	4.2
11415	3:10:15	80.4	147.8	178.9	0.0	7.53	4.2
11430	3:10:30	80.3	148.1	179.3	0.0	7.53	4.2
11445	3:10:45	80.5	148.3	179.5	0.0	7.52	4.2
11460	3:11:00	80.4	148.7	179.8	0.0	7.52	4.2
11475	3:11:15	80.0	149.0	179.7	0.0	7.49	4.1

Comments

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
11490	3:11:30	80.1	149.1	179.8	0.0	7.48	4.1	
11505	3:11:45	80.1	149.4	180.3	0.0	7.48	4.0	
11520	3:12:00	80.0	149.3	180.7	0.0	7.48	4.0	
11535	3:12:15	79.8	149.6	180.8	0.0	7.50	4.0	
11550	3:12:30	80.7	149.9	181.4	0.0	7.49	4.0	
11565	3:12:45	80.7	150.1	181.6	0.0	7.48	4.0	
11580	3:13:00	81.6	150.4	181.8	0.0	7.50	4.0	
11595	3:13:15	81.8	150.5	182.0	0.0	7.49	4.0	
11610	3:13:30	82.0	150.0	182.0	0.0	7.48	4.0	
11625	3:13:45	81.7	150.0	182.1	0.0	7.49	4.0	
11640	3:14:00	82.1	150.1	182.3	0.0	7.49	4.0	
11655	3:14:15	82.2	150.2	182.7	0.0	7.49	4.0	
11670	3:14:30	82.2	150.4	183.0	0.0	7.50	3.9	
11685	3:14:45	82.1	150.5	182.9	0.0	7.51	4.0	
11700	3:15:00	82.5	150.6	182.5	0.0	7.50	4.0	
11715	3:15:15	82.5	150.7	182.7	0.0	7.50	4.0	
11730	3:15:30	82.3	150.7	182.8	0.0	7.51	4.0	
11745	3:15:45	82.2	150.8	182.9	0.0	7.51	4.0	
11760	3:16:00	82.2	150.7	183.1	0.0	7.52	4.1	
11775	3:16:15	82.4	150.4	182.9	0.0	7.51	4.1	
11790	3:16:30	82.2	149.9	182.9	0.0	7.50	4.1	
11805	3:16:45	82.7	149.8	182.9	0.0	7.50	4.0	
11820	3:17:00	82.7	149.8	183.0	0.0	7.51	4.0	
11835	3:17:15	82.4	149.6	183.1	0.0	7.51	4.0	
11850	3:17:30	82.1	149.8	183.0	0.0	7.50	4.0	
11865	3:17:45	82.6	149.7	182.8	0.0	7.51	4.0	
11880	3:18:00	82.3	149.8	182.7	0.0	7.51	4.0	
11895	3:18:15	82.7	149.7	182.4	0.0	7.52	4.1	
11910	3:18:30	82.9	149.5	182.3	0.0	7.52	4.1	
11925	3:18:45	82.7	149.4	182.3	0.0	7.52	4.1	
11940	3:19:00	83.2	149.3	182.2	0.0	7.51	4.0	
11955	3:19:15	83.1	149.2	181.8	0.0	7.52	4.1	
11970	3:19:30	82.9	149.2	181.3	0.0	7.43	4.1	
11985	3:19:45	82.6	149.1	180.7	0.0	7.39	3.8	
12000	3:20:00	82.5	148.8	180.5	0.0	7.38	3.7	
12015	3:20:15	82.5	148.4	180.2	0.0	7.39	3.7	
12030	3:20:30	82.8	148.2	180.2	0.0	7.40	3.7	
12045	3:20:45	82.8	148.1	179.9	0.0	7.39	3.7	
12060	3:21:00	82.6	147.9	179.8	0.0	7.39	3.7	
12075	3:21:15	82.9	147.7	179.7	0.0	7.41	3.7	
12090	3:21:30	82.5	147.7	179.5	0.0	7.39	3.7	
12105	3:21:45	82.1	147.6	179.3	0.0	7.39	3.6	
12120	3:22:00	81.8	147.5	179.1	0.0	7.38	3.6	
12135	3:22:15	81.8	147.3	178.9	0.0	7.38	3.6	
12150	3:22:30	81.6	147.3	178.6	0.0	7.39	3.6	
12165	3:22:45	81.7	147.1	178.7	0.0	7.39	3.6	
12180	3:23:00	81.8	147.4	178.4	0.0	7.40	3.6	
12195	3:23:15	82.0	147.3	178.4	0.0	7.39	3.6	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
12210	3:23:30	82.3	147.5	178.4	0.0	7.39	3.6
12225	3:23:45	82.0	147.4	178.1	0.0	7.39	3.6
12240	3:24:00	82.3	147.3	177.6	0.0	7.38	3.6
12255	3:24:15	82.0	147.4	177.2	0.0	7.27	3.5
12270	3:24:30	82.5	147.0	177.0	0.0	7.30	3.4
12285	3:24:45	82.4	146.7	176.8	0.0	7.31	3.4
12300	3:25:00	82.2	146.4	176.7	0.0	7.31	3.3
12315	3:25:15	82.0	146.6	176.7	0.0	7.29	3.3
12330	3:25:30	83.1	146.8	176.7	0.0	7.28	3.3
12345	3:25:45	84.1	146.7	176.5	0.0	7.29	3.3
12360	3:26:00	83.9	146.8	176.4	0.0	7.31	3.3
12375	3:26:15	83.6	146.8	176.2	0.0	7.36	3.4
12390	3:26:30	82.8	146.6	176.4	0.0	7.37	3.4
12405	3:26:45	81.8	146.7	176.6	0.0	7.38	3.5
12420	3:27:00	82.0	146.7	176.5	0.0	7.38	3.5
12435	3:27:15	81.6	147.1	176.6	0.0	7.38	3.5
12450	3:27:30	82.3	147.1	176.8	0.0	7.39	3.5
12465	3:27:45	83.0	147.2	176.9	0.0	7.39	3.5
12480	3:28:00	83.9	147.2	176.8	0.0	7.40	3.5
12495	3:28:15	84.4	147.2	176.7	0.0	7.40	3.5
12510	3:28:30	84.0	147.2	176.7	0.0	7.40	3.6
12525	3:28:45	83.9	147.2	176.8	0.0	7.41	3.6
12540	3:29:00	83.2	147.2	176.9	0.0	7.40	3.6
12555	3:29:15	82.7	147.2	177.0	0.0	7.39	3.6
12570	3:29:30	82.4	147.4	177.3	0.0	7.41	3.6
12585	3:29:45	82.6	147.3	177.2	0.0	7.43	3.6
12600	3:30:00	82.6	147.5	177.3	0.0	7.43	3.6
12615	3:30:15	82.5	147.5	177.5	0.0	7.42	3.6
12630	3:30:30	82.7	147.6	177.5	0.0	7.42	3.6
12645	3:30:45	81.5	147.7	177.6	0.0	7.43	3.7
12660	3:31:00	81.6	147.8	177.5	0.0	7.42	3.7
12675	3:31:15	81.7	147.9	177.8	0.0	7.41	3.7
12690	3:31:30	82.1	148.0	177.9	0.0	7.41	3.7
12705	3:31:45	81.8	148.1	178.0	0.0	7.41	3.7
12720	3:32:00	82.0	148.0	178.0	0.0	7.39	3.7
12735	3:32:15	82.0	148.3	178.2	0.0	7.40	3.6
12750	3:32:30	82.5	148.2	178.2	0.0	7.38	3.6
12765	3:32:45	82.5	148.2	178.2	0.0	7.39	3.6
12780	3:33:00	82.6	148.2	178.1	0.0	7.38	3.6
12795	3:33:15	82.6	148.3	178.1	0.0	7.38	3.6
12810	3:33:30	82.8	148.3	178.1	0.0	7.39	3.6
12825	3:33:45	82.8	148.2	178.2	0.0	7.41	3.6
12840	3:34:00	82.6	148.3	178.2	0.0	7.39	3.6
12855	3:34:15	82.7	148.3	178.4	0.0	7.39	3.6
12870	3:34:30	83.3	148.3	178.5	0.0	7.39	3.6
12885	3:34:45	83.1	148.4	178.6	0.0	7.40	3.6
12900	3:35:00	82.5	148.5	178.5	0.0	7.38	3.6
12915	3:35:15	82.1	148.5	178.6	0.0	7.39	3.7

Comments

Manufacturer: RIELLO
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Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12930	3:35:30	81.9	148.5	178.8	0.0	7.38	3.7	Start Low Fire Equilibrium - #3
12945	3:35:45	81.8	148.6	178.7	0.0	7.38	3.6	
12960	3:36:00	81.6	148.7	179.0	0.0	7.40	3.6	
12975	3:36:15	82.1	148.7	179.0	0.0	7.39	3.6	
12990	3:36:30	81.6	148.8	179.1	0.0	7.40	3.6	
13005	3:36:45	81.7	149.0	179.0	0.0	7.39	3.7	
13020	3:37:00	81.2	149.0	179.1	0.0	7.40	3.7	
13035	3:37:15	81.2	149.0	179.2	0.0	7.39	3.7	
13050	3:37:30	81.0	149.1	179.3	0.0	7.39	3.7	
13065	3:37:45	81.3	149.1	179.3	0.0	7.39	3.6	
13080	3:38:00	81.8	149.0	179.2	0.0	7.39	3.6	
13095	3:38:15	81.5	149.2	179.5	0.0	7.39	3.6	
13110	3:38:30	81.5	149.1	179.5	0.0	7.39	3.6	
13125	3:38:45	81.8	149.1	179.6	0.0	7.39	3.6	
13140	3:39:00	82.3	149.2	179.6	0.0	7.39	3.6	
13155	3:39:15	82.7	149.2	179.7	0.0	7.39	3.6	
13170	3:39:30	82.8	149.2	179.7	0.0	7.39	3.6	
13185	3:39:45	83.2	149.1	179.7	0.0	7.40	3.6	
13200	3:40:00	83.6	149.3	179.7	0.0	7.41	3.6	
13215	3:40:15	84.0	149.3	179.7	0.0	7.42	3.7	End Low Fire Equilibrium - #3
13230	3:40:30	84.1	149.4	179.7	0.0	7.42	3.7	
13245	3:40:45	84.0	149.5	179.9	0.0	7.41	3.7	
13260	3:41:00	83.7	149.5	180.0	0.0	7.41	3.7	
13275	3:41:15	82.5	149.6	179.9	0.0	7.41	3.7	
13290	3:41:30	82.3	149.6	180.1	0.0	7.41	3.7	Start Test - Low Fire - #3
13305	3:41:45	82.2	149.6	180.2	0.0	7.39	3.7	
13320	3:42:00	82.5	149.7	180.2	0.0	7.40	3.7	
13335	3:42:15	82.9	149.7	180.3	0.0	7.40	3.7	
13350	3:42:30	81.7	149.7	180.3	0.0	7.41	3.7	
13365	3:42:45	81.3	149.7	180.4	0.0	7.40	3.7	
13380	3:43:00	81.9	149.8	180.4	0.0	7.41	3.7	
13395	3:43:15	81.6	149.9	180.4	0.0	7.39	3.6	
13410	3:43:30	82.1	149.8	180.5	0.0	7.41	3.6	
13425	3:43:45	82.8	150.0	180.7	0.0	7.40	3.7	
13440	3:44:00	83.1	150.0	180.8	0.0	7.42	3.7	
13455	3:44:15	83.0	150.2	180.9	0.0	7.42	3.7	
13470	3:44:30	82.7	150.1	180.7	0.0	7.40	3.7	
13485	3:44:45	82.3	150.1	180.6	0.0	7.40	3.7	
13500	3:45:00	81.9	149.7	180.8	0.0	7.39	3.6	
13515	3:45:15	82.3	149.6	180.8	0.0	7.40	3.6	
13530	3:45:30	82.6	149.7	180.9	0.0	7.41	3.6	
13545	3:45:45	83.8	149.6	181.0	0.0	7.41	3.7	
13560	3:46:00	84.6	149.6	180.9	0.0	7.42	3.7	
13575	3:46:15	84.3	149.7	180.9	0.0	7.42	3.7	
13590	3:46:30	83.5	149.5	180.7	0.0	7.42	3.7	
13605	3:46:45	83.3	149.4	180.7	0.0	7.42	3.7	
13620	3:47:00	83.2	149.3	180.4	0.0	7.43	3.7	
13635	3:47:15	83.6	149.3	180.5	0.0	7.44	3.8	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
13650	3:47:30	83.8	149.3	180.6	0.0	7.42	3.8
13665	3:47:45	83.9	149.2	180.4	0.0	7.42	3.7
13680	3:48:00	83.7	149.1	180.3	0.0	7.41	3.7
13695	3:48:15	83.6	149.2	180.3	0.0	7.42	3.7
13710	3:48:30	82.3	149.0	180.3	0.0	7.42	3.7
13725	3:48:45	81.7	149.0	180.2	0.0	7.41	3.7
13740	3:49:00	81.8	148.9	180.2	0.0	7.40	3.7
13755	3:49:15	82.2	148.9	180.2	0.0	7.42	3.7
13770	3:49:30	82.5	148.9	180.0	0.0	7.41	3.7
13785	3:49:45	82.2	148.8	180.0	0.0	7.41	3.7
13800	3:50:00	82.6	148.8	180.0	0.0	7.42	3.7
13815	3:50:15	82.6	148.8	180.0	0.0	7.42	3.7
13830	3:50:30	83.2	148.7	180.0	0.0	7.42	3.7
13845	3:50:45	83.7	148.6	179.9	0.0	7.42	3.7
13860	3:51:00	83.3	148.7	179.9	0.0	7.42	3.7
13875	3:51:15	81.8	148.7	179.8	0.0	7.42	3.7
13890	3:51:30	82.4	148.7	179.8	0.0	7.42	3.7
13905	3:51:45	82.3	148.7	179.8	0.0	7.42	3.7
13920	3:52:00	82.6	148.7	179.8	0.0	7.42	3.7
13935	3:52:15	82.7	148.7	179.8	0.0	7.43	3.7
13950	3:52:30	82.7	148.6	179.8	0.0	7.42	3.7
13965	3:52:45	83.5	148.7	179.7	0.0	7.42	3.7
13980	3:53:00	83.4	148.6	179.9	0.0	7.42	3.7
13995	3:53:15	83.3	148.6	179.8	0.0	7.42	3.7
14010	3:53:30	82.9	148.5	179.6	0.0	7.43	3.7
14025	3:53:45	83.0	148.7	179.7	0.0	7.43	3.7
14040	3:54:00	83.0	148.5	179.6	0.0	7.42	3.7
14055	3:54:15	83.1	148.6	179.9	0.0	7.43	3.7
14070	3:54:30	82.8	148.5	179.5	0.0	7.43	3.7
14085	3:54:45	80.9	148.5	179.7	0.0	7.42	3.7
14100	3:55:00	81.0	148.5	179.6	0.0	7.42	3.7
14115	3:55:15	81.0	148.5	179.7	0.0	7.41	3.7
14130	3:55:30	81.5	148.6	179.4	0.0	7.42	3.7
14145	3:55:45	82.2	148.6	179.5	0.0	7.42	3.7
14160	3:56:00	81.9	148.4	179.7	0.0	7.42	3.7
14175	3:56:15	82.3	148.5	179.6	0.0	7.42	3.7
14190	3:56:30	82.7	148.5	179.6	0.0	7.41	3.7
14205	3:56:45	82.5	148.4	179.5	0.0	7.41	3.7
14220	3:57:00	81.6	148.3	179.4	0.0	7.41	3.7
14235	3:57:15	81.2	148.4	179.3	0.0	7.39	3.6
14250	3:57:30	82.6	148.4	179.4	0.0	7.40	3.6
14265	3:57:45	82.3	148.4	179.4	0.0	7.40	3.6
14280	3:58:00	81.8	148.3	179.4	0.0	7.41	3.6
14295	3:58:15	81.8	148.3	179.3	0.0	7.41	3.7
14310	3:58:30	82.3	148.4	179.4	0.0	7.40	3.7
14325	3:58:45	83.1	148.4	179.4	0.0	7.41	3.6
14340	3:59:00	83.4	148.4	179.4	0.0	7.41	3.6
14355	3:59:15	84.1	148.3	179.3	0.0	7.41	3.6

Comments

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14370	3:59:30	84.8	148.3	179.2	0.0	7.41	3.6	
14385	3:59:45	84.4	148.3	179.3	0.0	7.42	3.7	
14400	4:00:00	83.2	148.2	179.3	0.0	7.42	3.7	
14415	4:00:15	82.2	148.3	179.3	0.0	7.40	3.7	
14430	4:00:30	81.8	148.3	179.2	0.0	7.40	3.7	
14445	4:00:45	82.2	148.4	179.4	0.0	7.40	3.6	
14460	4:01:00	82.1	148.3	179.2	0.0	7.40	3.6	
14475	4:01:15	81.4	148.3	179.2	0.0	7.40	3.6	
14490	4:01:30	80.6	148.3	179.2	0.0	7.40	3.6	
14505	4:01:45	81.1	148.2	179.5	0.0	7.40	3.6	
14520	4:02:00	81.7	148.4	179.3	0.0	7.40	3.6	
14535	4:02:15	82.2	148.4	179.3	0.0	7.40	3.6	
14550	4:02:30	82.5	148.3	179.1	0.0	7.41	3.6	
14565	4:02:45	82.4	148.4	179.3	0.0	7.41	3.7	
14580	4:03:00	81.8	148.4	179.2	0.0	7.41	3.7	
14595	4:03:15	81.4	148.4	179.3	0.0	7.40	3.6	
14610	4:03:30	81.2	148.3	179.3	0.0	7.40	3.6	
14625	4:03:45	81.2	148.4	179.3	0.0	7.41	3.6	
14640	4:04:00	82.0	148.3	179.2	0.0	7.41	3.6	
14655	4:04:15	82.5	148.2	179.1	0.0	7.42	3.7	
14670	4:04:30	82.9	148.3	179.0	0.0	7.41	3.7	
14685	4:04:45	82.1	148.3	179.0	0.0	7.41	3.7	
14700	4:05:00	81.7	148.2	179.1	0.0	7.40	3.7	
14715	4:05:15	81.1	148.2	178.9	0.0	7.41	3.6	
14730	4:05:30	80.8	148.2	179.1	0.0	7.40	3.6	
14745	4:05:45	81.3	148.1	178.9	0.0	7.40	3.6	
14760	4:06:00	81.1	148.2	179.0	0.0	7.40	3.6	
14775	4:06:15	81.0	148.2	179.0	0.0	7.41	3.6	
14790	4:06:30	81.2	148.1	178.9	0.0	7.42	3.6	
14805	4:06:45	81.1	148.2	179.1	0.0	7.41	3.7	
14820	4:07:00	80.6	148.2	179.0	0.0	7.41	3.6	
14835	4:07:15	80.6	148.2	178.9	0.0	7.40	3.6	
14850	4:07:30	81.0	148.1	178.8	0.0	7.40	3.6	
14865	4:07:45	81.1	148.3	179.0	0.0	7.40	3.6	
14880	4:08:00	80.7	148.1	178.9	0.0	7.41	3.6	
14895	4:08:15	80.7	148.2	178.9	0.0	7.41	3.6	
14910	4:08:30	81.1	148.1	179.0	0.0	7.40	3.6	
14925	4:08:45	81.7	148.1	178.9	0.0	7.41	3.6	
14940	4:09:00	82.0	148.1	178.9	0.0	7.41	3.6	Start Emissions
14955	4:09:15	82.2	148.2	178.9	0.0	7.41	3.6	
14970	4:09:30	82.6	148.1	178.9	0.0	7.41	3.6	
14985	4:09:45	82.8	148.1	178.9	0.0	7.43	3.6	
15000	4:10:00	82.8	148.0	178.7	0.0	7.43	3.7	1st Minute
15015	4:10:15	82.1	148.0	178.6	0.0	7.42	3.7	
15030	4:10:30	82.3	148.0	178.8	0.0	7.42	3.7	
15045	4:10:45	83.3	148.0	178.6	0.0	7.41	3.7	
15060	4:11:00	82.7	148.0	178.7	0.0	7.42	3.6	2nd Minute

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15075	4:11:15	82.1	147.9	178.9	0.0	7.43	3.6	
15090	4:11:30	82.7	148.0	179.0	0.0	7.43	3.7	
15105	4:11:45	82.4	147.9	178.7	0.0	7.43	3.6	
15120	4:12:00	82.4	148.1	178.9	0.0	7.44	3.7	3rd Minute / EOT - Low Fire - #3
15135	4:12:15	82.1	148.0	178.7	0.0	7.44	3.7	
15150	4:12:30	82.4	148.1	178.8	0.0	7.44	3.7	CO2 (Avg) % = 7.42
15165	4:12:45	81.6	148.0	178.8	0.0	7.43	3.7	NOx (Avg) ppm = 3.6
15180	4:13:00	81.9	147.9	178.8	0.0	7.44	3.7	CO (Max) ppm = 0.0
15195	4:13:15	81.3	147.9	178.7	0.0	7.43	3.7	Ambient (Avg) F = 82.3
15210	4:13:30	81.1	147.9	178.8	0.0	7.43	3.7	T_In (Avg) F = 148.6
15225	4:13:45	81.6	147.9	178.9	0.0	7.43	3.7	T_Del (Avg) F = 179.6
15240	4:14:00	81.4	148.0	178.7	0.0	7.43	3.7	
15255	4:14:15	81.2	147.9	178.7	0.0	7.43	3.7	
15270	4:14:30	81.0	147.9	178.8	0.0	7.43	3.7	
15285	4:14:45	80.7	147.9	178.9	0.0	7.42	3.7	
15300	4:15:00	81.2	147.9	179.0	0.0	7.42	3.7	
15315	4:15:15	81.1	147.9	179.0	0.0	7.42	3.7	
15330	4:15:30	80.6	147.9	178.8	0.0	7.41	3.7	
15345	4:15:45	81.1	148.0	179.0	0.0	7.42	3.7	
15360	4:16:00	81.7	147.9	178.9	0.0	7.42	3.7	
15375	4:16:15	82.3	147.8	178.9	0.0	7.42	3.7	
15390	4:16:30	83.0	147.9	178.7	0.0	7.42	3.7	
15405	4:16:45	82.7	147.8	178.6	0.0	7.42	3.7	
15420	4:17:00	81.2	147.9	178.6	0.0	7.42	3.7	
15435	4:17:15	80.9	147.8	178.7	0.0	7.43	3.7	
15450	4:17:30	81.0	147.8	178.6	0.0	7.42	3.7	
15465	4:17:45	81.5	147.9	178.6	0.0	7.42	3.7	
15480	4:18:00	81.8	147.9	178.7	0.0	7.42	3.7	
15495	4:18:15	81.7	147.9	178.9	0.0	7.42	3.7	
15510	4:18:30	81.7	147.8	178.8	0.0	7.42	3.7	
15525	4:18:45	81.6	147.9	178.7	0.0	7.42	3.7	
15540	4:19:00	81.7	147.9	178.8	0.0	7.42	3.7	
15555	4:19:15	81.8	147.9	178.6	0.0	7.43	3.7	
15570	4:19:30	81.9	147.9	178.8	0.0	7.43	3.7	
15585	4:19:45	82.0	147.9	178.8	0.0	7.42	3.7	
15600	4:20:00	81.3	148.0	178.7	0.0	7.43	3.7	
15615	4:20:15	81.5	147.9	178.8	0.0	7.43	3.7	
15630	4:20:30	81.5	147.9	178.7	0.0	7.43	3.7	
15645	4:20:45	81.3	147.9	178.7	0.0	7.43	3.7	
15660	4:21:00	81.7	148.0	178.6	0.0	7.43	3.7	
15675	4:21:15	82.1	147.9	178.3	0.0	7.44	3.7	
15690	4:21:30	81.7	147.7	169.4	9.6	6.00	3.7	
15705	4:21:45	82.0	147.2	157.0	0.0	0.34	3.3	
15720	4:22:00	81.6	140.0	153.0	0.0	0.16	2.0	
15735	4:22:15	81.2	113.6	150.7	0.0	0.29	0.7	
15750	4:22:30	81.7	88.8	150.0	0.0	0.03	0.7	
15765	4:22:45	82.6	80.0	149.5	0.0	0.00	0.1	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15780	4:23:00	83.8	76.0	149.2	0.0	0.00	0.1	
15795	4:23:15	83.7	74.0	148.9	0.0	0.00	0.0	
15810	4:23:30	83.0	72.8	148.3	0.0	0.00	0.0	
15825	4:23:45	82.4	72.0	145.6	0.0	0.00	0.0	
15840	4:24:00	82.4	71.4	137.3	0.0	0.00	0.0	Start Zero OUT
15855	4:24:15	82.1	70.9	125.0	0.0	0.00	0.0	
15870	4:24:30	81.6	70.6	113.8	0.0	0.00	0.0	
15885	4:24:45	81.8	70.3	105.2	0.0	0.00	0.0	
15900	4:25:00	82.2	69.9	96.4	0.0	0.00	0.0	
15915	4:25:15	82.4	69.7	88.4	0.0	0.00	0.0	
15930	4:25:30	82.1	69.6	82.7	0.0	0.00	0.0	
15945	4:25:45	82.3	69.4	78.8	0.0	0.00	0.0	
15960	4:26:00	82.4	69.4	76.5	0.0	0.00	0.0	
15975	4:26:15	81.5	69.2	74.9	0.0	0.00	0.0	
15990	4:26:30	81.8	69.1	73.8	0.0	0.00	0.0	
16005	4:26:45	82.1	69.0	73.1	0.0	0.00	0.0	
16020	4:27:00	82.2	68.8	72.5	0.0	0.00	0.0	
16035	4:27:15	82.4	68.7	72.0	0.0	0.00	0.0	
16050	4:27:30	82.3	68.6	71.6	0.0	0.00	0.0	
16065	4:27:45	82.4	68.6	71.4	0.0	0.00	0.0	
16080	4:28:00	82.4	68.5	71.1	0.0	0.00	0.0	
16095	4:28:15	81.7	68.4	70.9	0.0	0.00	0.0	
16110	4:28:30	82.2	68.2	70.7	0.0	0.00	0.0	
16125	4:28:45	82.2	68.2	70.4	0.0	0.00	0.0	
16140	4:29:00	82.5	68.1	70.3	0.0	0.00	0.0	Analyzer Zero OUT
16155	4:29:15	82.7	68.0	70.2	0.0	0.00	0.0	
16170	4:29:30	82.9	68.0	70.1	0.0	0.00	0.0	
16185	4:29:45	82.8	68.0	70.1	325.6	1.59	0.0	
16200	4:30:00	82.4	68.0	70.1	883.7	9.21	6.1	
16215	4:30:15	82.1	67.9	70.0	945.9	9.45	18.8	
16230	4:30:30	82.0	67.7	70.0	953.4	9.48	25.4	
16245	4:30:45	81.7	67.7	70.0	956.0	9.49	25.6	
16260	4:31:00	81.7	67.7	70.0	956.5	9.49	25.7	
16275	4:31:15	81.6	67.6	69.9	957.1	9.50	25.7	
16290	4:31:30	82.0	67.6	70.0	957.6	9.50	25.8	
16305	4:31:45	82.0	67.7	70.0	957.6	9.50	25.8	
16320	4:32:00	82.1	67.6	70.0	957.6	9.50	25.8	Start High Span OUT
16335	4:32:15	82.0	67.6	69.9	958.1	9.50	25.9	
16350	4:32:30	82.3	67.6	69.9	958.1	9.50	25.9	
16365	4:32:45	82.2	67.6	69.9	958.1	9.50	25.9	
16380	4:33:00	82.1	67.6	69.9	958.1	9.50	25.9	
16395	4:33:15	81.9	67.5	69.9	958.7	9.50	25.9	
16410	4:33:30	81.4	67.6	69.8	958.7	9.50	26.0	
16425	4:33:45	81.3	67.6	69.8	958.1	9.50	25.9	
16440	4:34:00	81.2	67.6	69.8	958.1	9.51	26.0	
16455	4:34:15	82.0	67.6	69.7	958.7	9.51	26.0	
16470	4:34:30	81.4	67.7	69.8	958.7	9.51	26.0	
16485	4:34:45	81.4	67.7	69.8	958.7	9.51	26.1	

Manufacturer: RIELLO
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Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
16500	4:35:00	82.1	67.7	69.8	958.1	9.51	26.1	
16515	4:35:15	82.2	67.7	69.9	958.7	9.51	26.1	
16530	4:35:30	82.3	67.7	69.9	958.7	9.51	26.1	
16545	4:35:45	82.3	67.7	70.0	958.7	9.51	26.2	
16560	4:36:00	82.4	67.8	70.2	958.7	9.51	26.2	
16575	4:36:15	82.4	68.0	70.6	958.7	9.51	26.2	
16590	4:36:30	82.1	67.9	70.9	959.2	9.51	26.1	
16605	4:36:45	81.5	68.1	71.3	959.2	9.51	26.2	
16620	4:37:00	81.4	68.3	71.5	959.2	9.51	26.2	Analyzer High Span OUT
16635	4:37:15	82.1	68.3	71.8	959.2	9.51	26.2	
16650	4:37:30	82.9	68.3	71.9	958.7	9.51	26.2	
16665	4:37:45	84.1	68.4	72.0	755.1	8.30	26.2	
16680	4:38:00	83.4	68.6	72.2	514.8	5.14	20.5	
16695	4:38:15	82.4	68.6	72.3	495.1	5.03	14.6	
16710	4:38:30	82.3	68.7	72.4	490.8	5.02	14.4	
16725	4:38:45	81.6	68.8	72.5	489.7	5.02	14.3	
16740	4:39:00	82.2	68.9	72.5	489.2	5.01	14.3	
16755	4:39:15	82.4	68.9	72.6	489.2	5.02	14.3	
16770	4:39:30	82.9	69.0	72.7	489.2	5.01	14.3	
16785	4:39:45	83.4	69.1	72.8	489.2	5.01	14.3	
16800	4:40:00	83.3	69.1	72.8	489.2	5.01	14.3	Start Mid Span OUT
16815	4:40:15	83.7	69.3	72.9	489.2	5.01	14.3	
16830	4:40:30	83.2	69.4	73.0	488.7	5.01	14.3	
16845	4:40:45	83.2	69.5	73.1	488.7	5.01	14.2	
16860	4:41:00	82.7	69.7	73.3	488.7	5.01	14.3	
16875	4:41:15	82.7	69.8	73.4	488.7	5.01	14.3	
16890	4:41:30	82.5	70.0	73.5	488.7	5.01	14.2	
16905	4:41:45	82.5	70.0	73.5	488.7	5.01	14.3	
16920	4:42:00	82.2	70.1	73.6	488.7	5.01	14.3	
16935	4:42:15	82.1	70.2	73.7	488.7	5.01	14.3	
16950	4:42:30	82.2	70.2	73.7	488.7	5.01	14.3	
16965	4:42:45	82.7	70.4	73.8	488.7	5.01	14.2	
16980	4:43:00	83.4	70.4	73.9	488.7	5.01	14.2	
16995	4:43:15	83.7	70.5	74.0	488.7	5.01	14.2	
17010	4:43:30	83.9	70.6	74.0	488.7	5.01	14.2	
17025	4:43:45	84.1	70.6	74.1	488.7	5.01	14.2	
17040	4:44:00	83.8	70.7	74.1	488.7	5.01	14.2	
17055	4:44:15	83.7	70.9	74.2	488.7	5.01	14.2	
17070	4:44:30	84.1	70.9	74.3	488.7	5.01	14.2	
17085	4:44:45	83.9	71.0	74.3	488.7	5.01	14.2	
17100	4:45:00	83.7	71.2	74.4	488.7	5.01	14.2	Analyzer Mid Span OUT
17115	4:45:15	83.0	71.3	74.5	488.7	5.01	14.2	
17130	4:45:30	84.4	71.4	74.6	488.7	5.01	14.2	
17145	4:45:45	83.2	71.5	74.6	488.7	5.01	13.8	
17160	4:46:00	82.7	71.6	74.8	438.4	4.99	14.2	
17175	4:46:15	82.2	71.7	74.8	254.1	2.66	10.8	
17190	4:46:30	82.3	71.8	74.9	236.4	2.59	7.0	
17205	4:46:45	82.6	72.0	75.0	233.2	2.58	6.8	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17220	4:47:00	82.4	72.1	75.0	233.6	2.58	6.8	
17235	4:47:15	82.2	72.2	75.1	233.6	2.58	6.7	
17250	4:47:30	82.5	72.3	75.2	233.6	2.58	6.7	
17265	4:47:45	82.3	72.4	75.3	233.6	2.58	6.7	
17280	4:48:00	82.3	72.4	75.3	234.6	2.58	6.7	Start Low Span OUT
17295	4:48:15	82.6	72.5	75.3	234.6	2.58	6.7	
17310	4:48:30	82.3	72.5	75.4	234.6	2.58	6.7	
17325	4:48:45	82.6	72.7	75.5	234.6	2.58	6.7	
17340	4:49:00	82.4	72.8	75.5	234.8	2.58	6.7	
17355	4:49:15	82.2	72.9	75.6	234.8	2.58	6.7	
17370	4:49:30	82.2	73.0	75.7	234.8	2.58	6.7	
17385	4:49:45	82.4	73.1	75.8	234.8	2.58	6.7	
17400	4:50:00	82.3	73.2	75.9	235.1	2.58	6.7	
17415	4:50:15	82.1	73.2	75.8	235.1	2.58	6.7	
17430	4:50:30	82.2	73.3	75.9	235.2	2.58	6.7	
17445	4:50:45	82.2	73.4	76.0	235.2	2.58	6.7	
17460	4:51:00	82.1	73.4	76.0	235.3	2.58	6.7	
17475	4:51:15	81.6	73.5	76.1	235.3	2.58	6.7	
17490	4:51:30	81.4	73.6	76.1	235.6	2.58	6.7	
17505	4:51:45	81.6	73.7	76.2	235.6	2.58	6.7	
17520	4:52:00	82.3	73.8	76.3	235.6	2.58	6.7	
17535	4:52:15	82.6	73.8	76.4	235.6	2.58	6.7	
17550	4:52:30	82.1	73.9	76.4	235.6	2.58	6.7	
17565	4:52:45	82.6	74.0	76.4	235.6	2.58	6.7	
17580	4:53:00	82.9	74.0	76.5	235.6	2.58	6.7	Analyzer Low Span OUT
17595	4:53:15	82.7	74.1	76.5	235.6	2.58	6.7	
17610	4:53:30	83.2	74.2	76.6	235.6	2.58	6.7	
17625	4:53:45	83.0	74.2	76.6	235.6	2.58	6.5	
17640	4:54:00	83.0	74.3	76.6	98.5	1.39	6.6	
17655	4:54:15	82.5	74.3	76.7	0.1	0.05	3.7	
17670	4:54:30	82.1	74.4	76.8	0.0	0.01	0.6	
17685	4:54:45	82.5	74.5	76.9	0.0	0.01	0.4	
17700	4:55:00	82.4	74.6	76.9	0.0	0.00	0.4	
17715	4:55:15	82.0	74.7	76.9	0.0	0.00	0.4	
17730	4:55:30	82.2	74.8	77.0	0.0	0.00	0.4	
17745	4:55:45	83.0	74.8	77.1	0.0	0.00	0.3	
17760	4:56:00	82.7	74.8	77.0	0.0	0.00	0.3	Start Zero Bias OUT
17775	4:56:15	82.7	74.9	77.2	0.0	0.00	0.3	
17790	4:56:30	82.4	75.1	77.2	0.0	0.00	0.3	
17805	4:56:45	82.3	75.0	77.2	0.0	0.00	0.3	
17820	4:57:00	83.0	75.2	77.3	0.0	0.00	0.3	
17835	4:57:15	82.9	75.2	77.3	0.0	0.00	0.3	
17850	4:57:30	83.1	75.3	77.4	0.0	0.00	0.3	
17865	4:57:45	82.5	75.3	77.4	0.0	0.00	0.2	
17880	4:58:00	82.3	75.4	77.5	0.0	0.00	0.2	
17895	4:58:15	81.4	75.5	77.5	0.0	0.00	0.2	
17910	4:58:30	81.7	75.6	77.6	0.0	0.00	0.2	
17925	4:58:45	82.7	75.6	77.6	0.0	0.00	0.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17940	4:59:00	82.2	75.7	77.6	0.0	0.00	0.2	System Zero OUT
17955	4:59:15	80.8	75.8	77.7	0.0	0.00	0.2	
17970	4:59:30	81.0	75.9	77.7	0.0	0.00	0.2	
17985	4:59:45	81.3	76.0	77.8	0.0	0.00	0.2	
18000	5:00:00	81.4	76.1	77.9	0.0	0.00	0.2	
18015	5:00:15	81.4	76.0	77.9	0.0	0.02	0.2	
18030	5:00:30	82.2	76.1	77.9	0.0	0.06	0.2	
18045	5:00:45	82.7	76.0	77.9	0.0	0.08	1.1	
18060	5:01:00	83.7	76.1	77.9	0.0	0.01	2.7	
18075	5:01:15	83.7	76.1	78.0	0.0	0.00	8.9	
18090	5:01:30	83.6	76.1	78.0	0.0	0.00	13.6	
18105	5:01:45	83.2	76.1	78.0	0.0	0.00	13.7	
18120	5:02:00	82.9	76.2	78.0	0.0	0.00	13.7	
18135	5:02:15	83.1	76.1	78.1	0.0	0.00	13.7	
18150	5:02:30	83.4	76.2	78.1	0.0	0.00	13.8	
18165	5:02:45	83.9	76.2	78.1	0.0	0.00	13.8	
18180	5:03:00	83.7	76.2	78.2	0.0	0.00	13.8	
18195	5:03:15	83.1	76.3	78.2	0.0	0.00	13.9	
18210	5:03:30	81.9	76.3	78.2	67.7	0.18	13.9	Start Mid CO/CO2 Bias OUT
18225	5:03:45	81.6	76.4	78.3	417.0	4.74	6.5	
18240	5:04:00	82.0	76.4	78.3	469.6	4.92	3.4	
18255	5:04:15	82.7	76.5	78.3	476.5	4.97	0.2	
18270	5:04:30	81.8	230.4	51.6	479.1	4.99	0.2	
18285	5:04:45	81.7	33.1	35.8	480.2	4.99	0.1	
18300	5:05:00	81.1	35.9	33.8	480.7	4.99	0.1	
18315	5:05:15	81.0	40.5	37.0	480.7	4.99	0.1	
18330	5:05:30	79.7	41.6	37.5	480.7	5.00	0.1	
18345	5:05:45	80.4	43.1	43.6	480.7	5.00	0.1	
18360	5:06:00	80.0	43.3	43.1	480.7	5.00	0.1	
18375	5:06:15	79.9	44.7	42.0	481.2	5.00	0.1	
18390	5:06:30	79.7	45.6	38.8	481.3	5.00	0.1	
18405	5:06:45	79.8	43.3	43.1	481.3	5.00	0.1	
18420	5:07:00	79.8	43.7	43.5	481.2	5.00	0.1	
18435	5:07:15	79.8	44.5	42.9	481.2	5.00	0.1	
18450	5:07:30	80.1	43.7	43.0	481.2	5.00	0.1	
18465	5:07:45	80.4	44.3	42.8	481.2	5.00	0.1	
18480	5:08:00	80.2	43.8	43.8	481.2	5.00	0.1	
18495	5:08:15	80.2	44.5	44.5	481.2	5.00	0.1	System Mid CO/CO2 OUT
18510	5:08:30	80.2	43.6	43.4	481.2	5.00	0.1	
18525	5:08:45	79.9	44.0	44.8	481.2	5.00	0.1	
18540	5:09:00	80.0	289.8	39.2	481.2	5.00	0.1	
18555	5:09:15	79.6	44.4	38.6	481.2	5.00	0.1	
18570	5:09:30	81.4	43.4	45.2	481.2	5.00	0.1	
18585	5:09:45	81.2	44.5	44.5	363.8	4.69	0.1	
18600	5:10:00	80.9	43.4	44.6	93.9	0.69	0.1	
18615	5:10:15	80.6	44.4	42.3	206.3	2.48	0.1	
18630	5:10:30	80.6	44.3	44.4	222.0	2.57	0.1	
18645	5:10:45	80.5	44.8	42.6	225.8	2.58	0.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
18660	5:11:00	80.2	44.2	44.6	226.8	2.58	0.1	
18675	5:11:15	79.8	45.0	44.3	227.4	2.58	0.1	
18690	5:11:30	79.6	44.5	44.5	227.4	2.58	0.1	
18705	5:11:45	80.4	44.6	37.9	227.4	2.58	0.1	
18720	5:12:00	81.2	43.5	36.8	227.4	2.58	0.1	Start Low CO/CO2 Bias OUT
18735	5:12:15	82.1	42.7	42.8	227.4	2.58	0.1	
18750	5:12:30	81.5	43.5	44.5	227.4	2.58	0.1	
18765	5:12:45	80.7	43.0	43.8	227.4	2.58	0.1	
18780	5:13:00	80.5	44.3	43.8	227.4	2.58	0.1	
18795	5:13:15	80.2	44.7	44.2	227.4	2.58	0.1	
18810	5:13:30	80.5	44.3	44.9	227.4	2.58	0.1	
18825	5:13:45	81.1	36.2	-1.7	227.4	2.58	0.1	
18840	5:14:00	80.8	41.9	37.9	227.4	2.58	0.1	
18855	5:14:15	80.8	-28.0	-175.2	227.4	2.58	0.1	
18870	5:14:30	80.9	29.2	27.8	227.4	2.58	0.1	
18885	5:14:45	80.7	33.8	29.2	227.4	2.58	0.1	
18900	5:15:00	80.6	34.7	30.5	227.4	2.58	0.0	
18915	5:15:15	80.2	38.4	30.3	227.4	2.58	0.0	
18930	5:15:30	80.9	39.5	32.0	227.4	2.58	0.0	
18945	5:15:45	81.0	40.4	32.4	227.4	2.58	0.0	
18960	5:16:00	81.6	40.7	33.4	227.4	2.58	0.0	
18975	5:16:15	81.0	41.2	34.3	227.4	2.58	0.0	
18990	5:16:30	80.8	40.2	34.5	227.4	2.58	0.0	
19005	5:16:45	79.8	41.2	34.2	227.4	2.58	0.0	
19020	5:17:00	80.3	42.7	35.8	227.4	2.58	0.0	System Low CO/CO2 OUT
19035	5:17:15	80.5	42.8	35.1	227.4	2.58	0.0	
19050	5:17:30	80.4	42.0	34.7	227.4	2.58	0.0	
19065	5:17:45	80.3	41.8	34.1	187.5	2.54	0.0	
19080	5:18:00	80.0	43.7	36.0	19.2	0.22	0.1	
19095	5:18:15	80.3	43.4	36.4	0.0	0.06	1.3	
19110	5:18:30	80.4	43.0	35.8	0.0	0.02	2.6	
19125	5:18:45	80.3	42.6	35.7	0.0	0.01	13.6	
19140	5:19:00	81.0	43.5	37.4	0.0	0.01	13.2	
19155	5:19:15	81.4	43.6	37.4	0.0	0.01	13.3	
19170	5:19:30	81.3	43.9	38.1	0.0	0.01	13.7	
19185	5:19:45	80.9	43.5	36.8	0.0	0.01	13.8	
19200	5:20:00	82.5	44.0	37.1	0.0	0.01	13.8	Start Mid NOx Bias OUT
19215	5:20:15	83.5	43.6	37.3	0.0	0.01	13.8	
19230	5:20:30	84.4	43.3	37.7	0.0	0.02	13.8	
19245	5:20:45	84.2	43.0	36.2	0.0	0.02	13.8	
19260	5:21:00	84.7	43.2	35.8	0.0	0.02	13.8	
19275	5:21:15	84.5	43.9	37.2	0.0	0.02	13.8	
19290	5:21:30	84.1	44.4	42.4	0.0	0.02	13.8	
19305	5:21:45	84.0	43.1	36.0	0.0	0.02	13.8	
19320	5:22:00	83.8	44.2	38.1	0.0	0.02	13.8	
19335	5:22:15	84.6	44.3	42.4	0.0	0.02	13.8	
19350	5:22:30	84.9	44.1	37.1	0.0	0.02	13.8	
19365	5:22:45	85.0	44.4	37.2	0.0	0.02	13.9	

Manufacturer: RIELLO
Model No.: SSB 512

Date: June 25, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
19380	5:23:00	84.7	44.8	42.8	0.0	0.03	13.8	
19395	5:23:15	84.6	43.7	37.3	0.0	0.03	13.9	
19410	5:23:30	84.0	43.7	37.0	0.0	0.03	13.9	
19425	5:23:45	83.5	44.7	43.3	0.0	0.03	13.9	
19440	5:24:00	83.4	44.9	37.6	0.0	0.03	13.9	
19455	5:24:15	82.6	43.8	37.9	0.0	0.03	13.8	
19470	5:24:30	83.6	44.2	43.1	0.0	0.03	13.8	
19485	5:24:45	82.7	44.6	38.0	0.0	0.03	13.8	
19500	5:25:00	82.9	45.1	38.0	0.0	0.03	13.8	System Mid NOx OUT
19515	5:25:15	82.5	44.0	37.3	0.0	0.03	13.8	
19530	5:25:30	82.4	43.8	37.2	0.0	0.04	13.9	
19545	5:25:45	82.9	44.4	38.2	0.0	0.04	13.9	
19560	5:26:00	83.3	43.4	38.3	0.0	0.04	13.9	
19575	5:26:15	82.9	44.7	42.6	0.0	0.04	13.9	
19590	5:26:30	83.5	43.4	37.8	0.0	0.04	13.9	
19605	5:26:45	83.1	44.0	38.4	0.0	0.04	14.0	
19620	5:27:00	83.4	44.9	38.3	0.0	0.04	14.0	
19635	5:27:15	83.9	44.8	37.9	0.0	0.05	8.3	
19650	5:27:30	84.7	45.1	43.7	0.0	0.05	2.7	
19665	5:27:45	84.6	45.4	43.7	0.0	0.05	6.4	
19680	5:28:00	84.2	43.9	37.7	0.0	0.05	6.5	Start Low NOx Bias OUT
19695	5:28:15	83.8	43.7	37.5	0.0	0.05	6.6	
19710	5:28:30	83.7	44.6	43.2	0.0	0.05	6.6	
19725	5:28:45	84.1	44.4	37.6	0.0	0.05	6.6	
19740	5:29:00	82.4	44.6	43.5	0.0	0.05	6.6	
19755	5:29:15	82.8	43.9	38.4	0.0	0.06	6.7	
19770	5:29:30	84.0	44.3	38.3	0.0	0.06	6.6	
19785	5:29:45	84.6	44.3	43.8	0.0	0.06	6.7	
19800	5:30:00	85.0	45.0	38.3	0.0	0.06	6.6	
19815	5:30:15	84.0	45.8	44.2	0.0	0.07	6.6	
19830	5:30:30	83.4	45.2	39.6	0.0	0.07	6.6	
19845	5:30:45	84.0	44.7	38.6	0.0	0.07	6.6	
19860	5:31:00	84.1	45.3	45.1	0.0	0.07	6.6	
19875	5:31:15	84.3	44.2	37.6	0.0	0.07	6.6	
19890	5:31:30	84.1	44.0	38.0	0.0	0.07	6.6	
19905	5:31:45	84.6	45.0	43.2	0.0	0.07	6.7	
19920	5:32:00	85.0	45.5	39.2	0.0	0.07	6.7	
19935	5:32:15	84.5	45.3	43.7	0.0	0.08	6.6	
19950	5:32:30	84.8	45.2	39.4	0.0	0.08	6.6	
19965	5:32:45	85.2	45.5	44.3	0.0	0.08	6.6	
19980	5:33:00	85.1	45.4	44.4	0.0	0.08	6.6	System Low NOx OUT
19995	5:33:15	84.7	45.2	39.4	0.0	0.08	6.6	
20010	5:33:30	84.4	45.0	43.9	0.0	0.08	6.6	
Average =		80.3						

APPENDIX F

Test Results for:

SSB255

High & Intermediate Run#: 1 & 2

Date: June 12, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Maximum Rate

Input Rate = 255,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	78.3	78.6	°F
Relative Humidity	61	61	%
Barometer	28.83	28.83	in.Hg
Heating Value	1075	1075	BTU/ft ³
Inlet Pressure	9.6	9.6	in.w.c.
Manifold Pressure	0.70	0.7	in.w.c.
Gas Meter Reading	131.83	256.67	ft ³
Gas Temperature	77.0	77.0	°F
Water Meter Reading	685654.20	685790.7	gal

Mass	1137.0	lb
Di	8.329	lb/gal
Dn	8.240	lb/gal

Tin	69.5	°F
Tdel	179.3	°F

Calculations		
Test Start	1:35:00	h:mm:ss
Test End	2:05:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	255,897	BTU/hr
Cf	1.084	no units
Ho	124,590	BTU
Uncorrected Volume	124.84	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.968	no units
F	119.02	ft ³
C	9.0	%
P	15.5	ppm

N = 9.3 ng/J
17.6 ppm @ 3% O₂

Date: June 12, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Maximum Rate

Input Rate = 255,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	82.9	84.1	°F
Relative Humidity	61	61	%
Barometer	28.81	28.81	in.Hg
Heating Value	1075	1075	BTU/ft ³
Inlet Pressure	9.6	9.6	in.w.c.
Manifold Pressure	0.70	0.70	in.w.c.
Gas Meter Reading	698.44	822.00	ft ³
Gas Temperature	81.0	81.0	°F
Water Meter Reading	686330.20	686461	gal

Mass	1089.6	lb
Di	8.330	lb/gal
Dn	8.242	lb/gal

Tin	68.4	°F
Tdel	178.7	°F

Calculations		
Test Start	4:23:00	h:mm:ss
Test End	4:53:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	251,229	BTU/hr
Cf	1.084	no units
Ho	119,945	BTU
Uncorrected Volume	123.56	ft ³
Pressure Correction	0.984	no units
Meter Correction	1.000	no units
Temperature Correction	0.961	no units
F	116.85	ft ³
C	8.9	%
P	14.8	ppm

N = 9.1 ng/J
16.9 ppm @ 3% O₂

Date: June 12, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Intermediate Rate

Input Rate = 153,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	80.3	81.0	°F
Relative Humidity	61	61	%
Barometer	28.83	28.83	in.Hg
Heating Value	1075	1075	BTU/ft ³
Inlet Pressure	8.4	8.4	in.w.c.
Manifold Pressure	0.6	0.6	in.w.c.
Gas Meter Reading	349.78	425.57	ft ³
Gas Temperature	77.0	77.0	°F
Water Meter Reading	685900.10	685984.10	gal

Mass	699.5	lb
Di	8.328	lb/gal
Dn	8.237	lb/gal

Tin	71.3	°F
Tdel	180.1	°F

Calculations		
Test Start	2:30:00	h:mm:ss
Test End	3:00:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	154,889	BTU/hr
Cf	1.084	no units
Ho	75,955	BTU
Uncorrected Volume	75.79	ft ³
Pressure Correction	0.982	no units
Meter Correction	1.000	no units
Temperature Correction	0.968	no units
F	72.04	ft ³
C	9.0	%
P	14.7	ppm

N = 8.8 ng/J
16.7 ppm @ 3% O₂

Date: June 12, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Intermediate Rate

Input Rate = 153,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	84.3	84.9	°F
Relative Humidity	61	61	%
Barometer	28.80	28.8	in.Hg
Heating Value	1072	1072	BTU/ft ³
Inlet Pressure	8.4	8.4	in.w.c.
Manifold Pressure	0.60	0.6	in.w.c.
Gas Meter Reading	904.15	981.19	ft ³
Gas Temperature	83.0	83.0	°F
Water Meter Reading	686555.60	686638.70	gal

Mass	692.1	lb
Di	8.329	lb/gal
Dn	8.239	lb/gal

Tin	70.3	°F
Tdel	180.0	°F

Calculations		
Test Start	5:17:00	h:mm:ss
Test End	5:47:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	155,110	BTU/hr
Cf	1.081	no units
Ho	75,773	BTU
Uncorrected Volume	77.04	ft ³
Pressure Correction	0.981	no units
Meter Correction	1.000	no units
Temperature Correction	0.958	no units
F	72.35	ft ³
C	8.9	%
P	14.5	ppm

N = 8.8 ng/J
16.7 ppm @ 3% O₂

Date: June 12, 2015

High & Intermediate Run#: 1 & 2

Manufacturer: RIELLO
Model No.: SSB 255
Serial No.: NONE

Analytic Ranges

NOx = 30 ppm
CO2 = 10 %
CO = 1000 ppm

Pretest Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)	
NOx Zero	0	0.00			0.00	0.07			-0.23
NOx Low	6.95	6.85			0.33	6.74			0.70
NOx Mid	14.56	14.68			-0.40	14.15			1.37
NOx High	26.66	26.67			-0.03				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.57		0.24		2.58		0.14
CO2 Mid	5.007		5.00		0.07		5.00		0.07
CO2 High	9.488		9.50		-0.12				
CO Zero	0			0	0.00			0	0.00
CO Low	249.0			243	0.57			241	0.83
CO Mid	502.5			503	-0.06			497	0.53
CO High	976			977	-0.08				

Post Test Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)	System Drift (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)		
NOx Zero	0	0.03			-0.10	0.23			-0.77	0.53
NOx Low	6.95	6.70			0.83	6.69			0.87	-0.17
NOx Mid	14.56	14.33			0.77	13.97			1.97	-0.60
NOx High	26.66	26.36			1.00					
CO2 Zero	0		0.00		0.00		0.00		0.00	0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24	-0.10
CO2 Mid	5.007		5.00		0.07		4.99		0.17	-0.10
CO2 High	9.488		9.51		-0.22					
CO Zero	0			0	0.00			0.0	0.00	0.00
CO Low	249.0			237	1.22			230	1.85	-1.02
CO Mid	502.5			494	0.80			485	1.71	-1.18
CO High	976			967	0.94					

Calibration Linearity

NOx Pretest	-0.382
CO2 Pretest	0.133
CO Pretest	-0.016

NOx Post Test	0.166
CO2 Post Test	0.186
CO Post Test	0.319

Gas Cylinders

Cylinder #	Concentration
EB0018049	Low NOX = 6.95 ppm
CC100400	Mid NOX = 14.56 ppm
CC267435	High NOX = 26.66 ppm
CC129082	CO2 Low = 2.594 %
	CO Low = 249 ppm
CC25693	CO2 Mid = 5.007 %
	CO Mid = 502.5 ppm
CC353963	CO2 High = 9.488 %
	CO High = 976 ppm

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	75.7	74.2	75.0	0.0	0.00	0.0	
15	0:00:15	75.7	74.2	75.0	0.0	0.00	0.0	
30	0:00:30	76.5	74.2	75.0	0.0	0.00	0.0	
45	0:00:45	76.3	74.2	75.0	0.0	0.00	0.0	
60	0:01:00	76.2	74.2	74.9	0.0	0.00	0.0	Start Zero IN
75	0:01:15	75.8	74.1	74.9	0.0	0.00	0.0	
90	0:01:30	76.1	74.2	74.9	0.0	0.00	0.0	
105	0:01:45	76.4	74.1	74.9	0.0	0.00	0.0	
120	0:02:00	75.6	74.1	74.9	0.0	0.00	0.0	
135	0:02:15	75.5	74.2	74.9	0.0	0.00	0.0	
150	0:02:30	75.6	74.2	74.9	0.0	0.00	0.0	
165	0:02:45	75.4	74.2	74.9	0.0	0.00	0.0	
180	0:03:00	75.5	74.2	74.9	0.0	0.00	0.0	
195	0:03:15	75.4	74.2	74.9	0.0	0.00	0.0	
210	0:03:30	75.4	74.2	74.9	0.0	0.00	0.0	
225	0:03:45	75.4	74.2	74.9	0.0	0.00	0.0	
240	0:04:00	75.6	74.2	74.9	0.0	0.00	0.0	
255	0:04:15	76.0	74.2	74.9	0.0	0.00	0.0	
270	0:04:30	75.5	74.2	74.9	0.0	0.00	0.0	
285	0:04:45	75.4	74.2	74.9	0.0	0.00	0.0	
300	0:05:00	75.4	74.2	74.9	0.0	0.00	0.0	
315	0:05:15	75.3	74.2	74.9	0.0	0.00	0.0	
330	0:05:30	75.4	74.3	74.9	0.0	0.00	0.0	
345	0:05:45	75.5	74.2	74.9	0.0	0.00	0.0	
360	0:06:00	75.4	74.2	74.9	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	75.6	74.3	74.9	0.0	0.00	0.0	
390	0:06:30	75.4	74.2	74.9	0.0	0.00	0.0	
405	0:06:45	75.5	74.3	74.9	0.0	0.00	0.0	
420	0:07:00	75.7	74.2	74.9	0.0	0.00	0.0	
435	0:07:15	75.9	74.1	74.8	0.0	0.00	0.0	
450	0:07:30	75.8	74.2	74.8	310.2	0.68	0.0	
465	0:07:45	76.6	74.1	74.8	893.2	9.09	5.1	
480	0:08:00	76.1	74.1	74.8	959.7	9.41	19.6	
495	0:08:15	75.8	74.1	74.8	967.7	9.48	29.1	
510	0:08:30	75.9	74.2	74.8	970.4	9.50	27.7	
525	0:08:45	75.8	74.1	74.8	972.0	9.51	27.5	
540	0:09:00	75.8	74.2	74.8	975.2	10.35	27.6	Start High Span IN
555	0:09:15	75.8	74.1	74.8	975.7	9.49	27.8	
570	0:09:30	75.7	74.1	74.7	975.7	9.50	26.8	
585	0:09:45	75.6	74.1	74.7	975.7	9.50	26.7	
600	0:10:00	76.1	74.0	74.7	976.2	9.50	26.7	
615	0:10:15	75.9	74.2	74.8	976.2	9.50	26.5	
630	0:10:30	76.2	74.1	74.8	976.3	9.50	26.7	
645	0:10:45	76.0	74.1	74.8	976.2	9.50	26.7	
660	0:11:00	75.9	74.1	74.8	976.2	9.50	26.7	
675	0:11:15	76.4	74.1	74.8	976.8	9.50	26.7	
690	0:11:30	75.9	74.1	75.2	976.8	9.50	26.7	
705	0:11:45	75.6	74.1	75.1	976.8	9.50	26.7	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	75.5	74.1	75.0	976.8	9.50	26.7	
735	0:12:15	75.5	74.1	75.0	977.3	9.51	26.7	
750	0:12:30	75.7	74.1	74.9	977.3	9.50	26.7	
765	0:12:45	75.7	74.1	75.0	976.8	9.50	26.7	
780	0:13:00	75.9	74.1	75.0	976.8	9.50	26.7	
795	0:13:15	75.9	73.8	76.0	976.8	9.50	26.7	
810	0:13:30	75.8	73.6	83.5	976.8	9.50	26.7	
825	0:13:45	76.0	73.9	85.3	976.8	9.50	26.7	
840	0:14:00	76.5	71.7	85.9	976.8	9.50	26.7	Analyzer High Span IN
855	0:14:15	76.7	70.2	85.2	976.8	9.51	26.7	
870	0:14:30	76.2	71.2	83.8	976.8	9.51	26.7	
885	0:14:45	75.8	72.7	81.5	976.8	9.50	26.6	
900	0:15:00	76.0	74.0	79.3	683.0	6.35	27.2	
915	0:15:15	76.2	74.9	77.4	513.7	4.82	27.8	
930	0:15:30	76.1	75.3	75.6	505.2	4.95	15.5	
945	0:15:45	75.6	75.2	74.1	503.1	4.99	15.3	
960	0:16:00	75.8	74.7	73.3	502.5	5.00	15.2	
975	0:16:15	75.8	74.0	73.1	502.5	5.00	15.1	
990	0:16:30	75.9	73.3	73.4	502.5	5.00	14.7	
1005	0:16:45	75.7	72.6	74.0	502.5	5.00	14.7	
1020	0:17:00	76.0	72.0	74.5	502.5	5.00	14.7	Start Mid Span IN
1035	0:17:15	76.0	71.7	74.9	502.5	5.00	14.7	
1050	0:17:30	76.0	71.5	75.1	502.5	5.00	14.7	
1065	0:17:45	76.4	71.5	74.9	503.1	5.00	14.7	
1080	0:18:00	76.2	71.6	74.5	503.1	5.00	14.7	
1095	0:18:15	76.1	71.8	74.1	503.1	5.00	14.7	
1110	0:18:30	76.4	71.9	73.6	503.1	5.00	14.7	
1125	0:18:45	75.8	72.0	73.1	503.1	5.00	14.7	
1140	0:19:00	76.5	72.0	72.7	503.1	5.00	14.7	
1155	0:19:15	76.2	71.9	72.4	503.1	5.00	14.7	
1170	0:19:30	75.9	71.8	72.3	503.1	5.00	14.7	
1185	0:19:45	75.6	71.7	72.2	503.1	5.00	14.7	
1200	0:20:00	75.5	71.5	72.3	502.5	5.00	14.7	
1215	0:20:15	75.5	71.4	72.3	503.1	5.00	14.7	
1230	0:20:30	75.7	71.3	72.4	503.1	5.00	14.7	
1245	0:20:45	75.8	71.3	72.5	503.1	5.00	14.7	
1260	0:21:00	75.7	71.4	72.4	503.1	5.00	14.7	
1275	0:21:15	75.7	71.4	72.4	503.1	5.01	14.7	
1290	0:21:30	75.7	71.4	72.3	503.1	5.00	14.7	
1305	0:21:45	75.8	71.5	72.2	503.1	5.00	14.7	
1320	0:22:00	76.7	71.5	72.0	503.1	5.00	14.7	Analyzer Mid Span IN
1335	0:22:15	75.9	71.6	72.0	503.1	5.00	14.7	
1350	0:22:30	75.9	71.6	71.9	503.1	5.00	14.7	
1365	0:22:45	76.0	71.6	71.9	502.5	5.00	14.7	
1380	0:23:00	76.0	71.5	71.9	502.5	5.00	13.0	
1395	0:23:15	75.9	71.6	71.9	502.5	5.00	11.4	
1410	0:23:30	76.1	71.6	71.9	502.5	5.00	10.4	
1425	0:23:45	76.3	71.6	72.0	502.5	5.00	10.4	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	76.0	71.6	72.0	453.6	4.86	12.4	
1455	0:24:15	76.1	71.6	72.1	266.4	2.56	14.5	
1470	0:24:30	76.0	71.6	72.1	248.1	2.56	1.8	
1485	0:24:45	76.3	71.6	72.0	244.4	2.57	2.9	
1500	0:25:00	76.2	71.6	72.1	243.3	2.57	5.0	Start Low Span IN
1515	0:25:15	76.2	71.6	72.0	243.3	2.58	6.0	
1530	0:25:30	76.0	71.6	72.1	243.3	2.57	6.5	
1545	0:25:45	76.1	71.6	72.1	243.3	2.57	6.6	
1560	0:26:00	76.0	71.6	72.0	243.3	2.58	6.7	
1575	0:26:15	76.1	71.6	72.1	243.3	2.57	6.7	
1590	0:26:30	76.0	71.5	72.0	243.3	2.57	6.8	
1605	0:26:45	76.0	71.5	72.1	243.3	2.57	6.8	
1620	0:27:00	76.1	71.5	72.0	243.3	2.57	6.8	
1635	0:27:15	76.4	71.4	72.0	243.3	2.57	6.8	
1650	0:27:30	76.4	71.4	72.0	243.3	2.57	6.8	
1665	0:27:45	76.2	71.3	72.0	243.3	2.57	6.8	
1680	0:28:00	76.1	71.3	71.9	243.3	2.57	6.8	
1695	0:28:15	76.1	70.9	71.9	243.3	2.57	6.8	
1710	0:28:30	76.0	70.6	71.8	243.3	2.57	6.8	
1725	0:28:45	76.1	70.5	71.8	243.3	2.57	6.8	
1740	0:29:00	76.0	70.3	71.7	243.3	2.57	6.8	
1755	0:29:15	75.9	70.2	72.4	243.3	2.57	6.9	
1770	0:29:30	76.3	70.1	86.0	243.3	2.57	6.8	
1785	0:29:45	77.3	69.9	96.1	242.8	2.57	6.9	
1800	0:30:00	76.5	69.9	99.9	243.3	2.57	6.9	Analyzer Low Span IN
1815	0:30:15	77.4	70.9	100.5	243.3	2.57	6.9	
1830	0:30:30	76.7	72.7	100.4	243.3	2.57	6.8	
1845	0:30:45	76.4	74.1	99.9	242.8	2.57	5.9	
1860	0:31:00	76.2	74.9	99.4	145.4	1.93	6.1	
1875	0:31:15	76.3	75.3	99.3	14.5	0.05	7.2	
1890	0:31:30	76.2	75.5	99.4	2.2	0.00	0.4	
1905	0:31:45	75.9	75.5	101.9	0.0	0.00	0.3	
1920	0:32:00	76.0	71.5	101.9	0.0	0.00	0.2	
1935	0:32:15	75.9	69.3	102.2	0.0	0.00	0.2	
1950	0:32:30	76.0	68.5	102.1	0.0	0.00	0.2	
1965	0:32:45	76.0	68.1	101.8	0.0	0.00	0.2	
1980	0:33:00	76.0	67.8	100.3	0.0	0.00	0.2	Start Zero Bias IN
1995	0:33:15	76.4	67.5	98.8	0.0	0.00	0.2	
2010	0:33:30	76.2	67.3	96.9	0.0	0.00	0.2	
2025	0:33:45	76.1	67.1	95.7	0.0	0.00	0.2	
2040	0:34:00	76.0	66.9	95.0	0.0	0.00	0.2	
2055	0:34:15	76.2	66.6	94.2	0.0	0.00	0.1	
2070	0:34:30	76.2	66.4	93.8	0.0	0.00	0.1	
2085	0:34:45	76.3	66.2	93.3	0.0	0.00	0.1	
2100	0:35:00	76.3	66.1	92.9	0.0	0.00	0.1	
2115	0:35:15	76.5	65.9	92.7	0.0	0.00	0.1	
2130	0:35:30	76.4	65.8	93.0	0.0	0.00	0.1	
2145	0:35:45	76.4	65.6	92.8	0.0	0.00	0.1	

Manufacturer: RIELLO
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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	76.2	65.5	92.3	0.0	0.00	0.1	
2175	0:36:15	76.4	65.4	91.8	0.0	0.00	0.1	
2190	0:36:30	76.1	65.2	91.4	0.0	0.00	0.1	
2205	0:36:45	76.1	65.1	91.1	0.0	0.00	0.1	
2220	0:37:00	77.1	65.0	90.7	0.0	0.00	0.1	
2235	0:37:15	76.5	64.8	90.3	0.0	0.00	0.1	
2250	0:37:30	76.4	64.7	90.8	0.0	0.00	0.1	
2265	0:37:45	76.5	64.6	115.9	0.0	0.00	0.1	
2280	0:38:00	76.4	64.5	145.4	0.0	0.00	0.1	System Zero IN
2295	0:38:15	76.6	64.3	158.1	0.0	0.00	0.1	
2310	0:38:30	76.5	64.3	165.5	0.0	0.00	0.1	
2325	0:38:45	76.2	64.1	168.2	0.0	0.02	0.1	
2340	0:39:00	76.7	64.0	170.0	69.0	0.10	0.1	
2355	0:39:15	76.3	64.0	171.1	423.2	4.66	0.1	
2370	0:39:30	76.6	63.9	170.6	483.9	4.90	0.1	
2385	0:39:45	76.8	63.8	166.1	491.9	4.95	0.1	
2400	0:40:00	76.7	63.7	161.9	494.6	4.97	0.1	
2415	0:40:15	77.2	63.6	160.1	495.6	4.98	0.1	
2430	0:40:30	76.6	63.6	164.8	496.2	4.98	0.1	
2445	0:40:45	76.9	63.5	168.2	496.7	4.99	0.1	
2460	0:41:00	76.9	63.5	169.1	496.2	4.99	0.1	Start Mid CO/CO2 Bias IN
2475	0:41:15	76.5	63.4	170.6	496.7	4.99	0.1	
2490	0:41:30	76.5	63.3	170.4	496.7	4.99	0.1	
2505	0:41:45	76.6	63.3	170.8	496.7	4.99	0.1	
2520	0:42:00	76.9	63.3	170.7	496.7	4.99	0.1	
2535	0:42:15	77.3	63.2	170.1	496.7	4.99	0.1	
2550	0:42:30	76.9	63.1	170.5	496.7	4.99	0.1	
2565	0:42:45	76.9	63.1	170.4	496.7	4.99	0.1	
2580	0:43:00	77.5	63.0	170.5	496.9	4.99	0.1	
2595	0:43:15	77.2	63.0	170.4	497.2	4.99	0.1	
2610	0:43:30	76.8	63.0	171.6	497.2	4.99	0.1	
2625	0:43:45	76.4	63.0	171.0	497.2	4.99	0.1	
2640	0:44:00	76.8	62.9	171.0	497.2	5.00	0.1	
2655	0:44:15	76.7	63.0	170.8	496.7	4.99	0.1	
2670	0:44:30	76.8	62.9	170.1	497.2	5.00	0.1	
2685	0:44:45	77.5	62.9	170.5	497.2	5.00	0.1	
2700	0:45:00	77.7	62.8	170.3	497.2	5.00	0.1	
2715	0:45:15	77.5	62.7	170.5	497.2	4.99	0.1	
2730	0:45:30	77.4	62.7	171.0	497.2	5.00	0.0	
2745	0:45:45	77.0	62.7	170.3	497.2	5.00	0.0	
2760	0:46:00	77.0	62.7	169.6	497.2	5.00	0.0	System Mid CO/CO2 IN
2775	0:46:15	77.1	62.7	168.5	497.2	5.00	0.0	
2790	0:46:30	77.2	62.7	168.4	497.2	5.00	0.0	
2805	0:46:45	77.1	62.7	168.1	497.2	5.00	0.0	
2820	0:47:00	76.9	62.7	167.2	334.9	4.34	0.0	
2835	0:47:15	77.0	62.7	167.2	183.1	1.63	0.1	
2850	0:47:30	77.0	62.7	167.5	232.2	2.53	0.1	
2865	0:47:45	76.9	62.7	168.0	238.0	2.57	0.0	

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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	77.5	62.7	167.3	240.2	2.57	0.0	
2895	0:48:15	77.3	62.7	167.6	240.7	2.57	0.0	
2910	0:48:30	77.3	62.7	167.7	240.7	2.58	0.0	
2925	0:48:45	77.2	62.7	167.3	240.7	2.57	0.0	
2940	0:49:00	77.5	62.7	167.9	240.7	2.57	0.0	Start Low CO/CO2 Bias IN
2955	0:49:15	77.3	62.6	168.7	240.7	2.57	0.0	
2970	0:49:30	77.5	62.7	167.4	240.7	2.58	0.0	
2985	0:49:45	77.2	62.6	167.3	240.7	2.58	0.0	
3000	0:50:00	77.3	62.7	167.3	240.7	2.58	0.0	
3015	0:50:15	77.5	62.6	167.2	240.7	2.57	0.0	
3030	0:50:30	77.8	62.7	166.6	240.7	2.58	0.0	
3045	0:50:45	78.2	62.7	167.7	240.7	2.57	0.0	
3060	0:51:00	77.7	62.8	167.5	240.7	2.58	0.0	
3075	0:51:15	77.9	62.8	166.9	240.7	2.58	0.0	
3090	0:51:30	77.6	62.8	167.2	240.7	2.57	0.0	
3105	0:51:45	77.7	62.8	168.4	240.7	2.58	0.0	
3120	0:52:00	77.4	62.8	168.5	240.2	2.58	0.0	
3135	0:52:15	77.4	62.9	169.2	240.7	2.57	0.0	
3150	0:52:30	77.2	62.9	168.7	240.7	2.57	0.0	
3165	0:52:45	77.2	62.9	168.0	240.2	2.58	0.0	
3180	0:53:00	77.5	62.9	169.5	240.2	2.58	0.0	
3195	0:53:15	77.3	63.0	168.9	240.5	2.57	0.0	
3210	0:53:30	77.5	62.9	169.0	240.7	2.58	0.0	
3225	0:53:45	77.6	63.0	169.0	240.7	2.57	0.0	
3240	0:54:00	77.8	62.9	168.5	240.7	2.58	0.0	System Low CO/CO2 IN
3255	0:54:15	77.5	63.0	168.5	240.7	2.58	0.0	
3270	0:54:30	77.9	63.0	169.0	240.7	2.57	0.0	
3285	0:54:45	77.2	63.0	168.7	131.1	1.80	0.0	
3300	0:55:00	77.0	63.0	168.6	16.1	0.13	0.4	
3315	0:55:15	77.1	63.0	168.2	3.3	0.03	0.9	
3330	0:55:30	77.2	63.0	169.7	0.6	0.03	13.9	
3345	0:55:45	77.3	63.0	169.6	0.1	0.03	14.0	
3360	0:56:00	77.4	63.0	169.3	0.0	0.03	14.0	
3375	0:56:15	77.2	63.0	168.5	0.0	0.03	14.0	
3390	0:56:30	77.2	63.0	169.2	0.0	0.03	14.0	
3405	0:56:45	76.9	63.0	169.8	0.0	0.03	14.1	
3420	0:57:00	77.9	63.0	168.7	0.1	0.03	14.1	Start Mid NOx Bias IN
3435	0:57:15	77.6	63.0	168.8	0.1	0.03	14.1	
3450	0:57:30	77.3	63.0	168.5	0.0	0.03	14.1	
3465	0:57:45	77.2	63.0	168.6	0.1	0.03	14.1	
3480	0:58:00	77.0	63.0	168.1	0.1	0.03	14.1	
3495	0:58:15	77.1	63.0	168.6	0.1	0.03	14.1	
3510	0:58:30	77.0	63.0	168.8	0.0	0.03	14.1	
3525	0:58:45	77.1	63.1	169.5	0.0	0.04	14.1	
3540	0:59:00	77.0	63.0	169.0	0.1	0.04	14.2	
3555	0:59:15	77.2	63.0	168.5	0.1	0.04	14.2	
3570	0:59:30	77.2	63.0	168.8	0.0	0.04	14.1	
3585	0:59:45	77.8	63.1	167.6	0.0	0.04	14.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	77.5	63.1	167.5	0.0	0.04	14.2	
3615	1:00:15	77.2	63.0	167.5	0.0	0.04	14.1	
3630	1:00:30	78.1	63.0	168.3	0.1	0.04	14.2	
3645	1:00:45	77.6	63.1	167.2	0.1	0.04	14.2	
3660	1:01:00	77.4	63.0	167.3	0.1	0.04	14.2	
3675	1:01:15	77.2	63.1	167.4	0.1	0.04	14.2	
3690	1:01:30	77.3	63.1	167.2	0.1	0.05	14.2	
3705	1:01:45	77.3	63.0	167.2	0.1	0.05	14.2	
3720	1:02:00	77.3	63.0	167.3	0.1	0.05	14.2	System Mid NOx IN
3735	1:02:15	77.5	63.0	167.6	0.1	0.05	14.1	
3750	1:02:30	77.4	63.0	166.6	0.1	0.05	14.1	
3765	1:02:45	77.4	63.0	166.7	0.1	0.06	14.1	
3780	1:03:00	77.4	62.9	167.0	0.1	0.06	8.0	
3795	1:03:15	77.8	63.0	167.6	0.1	0.06	1.9	
3810	1:03:30	77.5	62.9	167.5	0.1	0.06	0.4	
3825	1:03:45	77.6	62.9	167.1	0.1	0.06	3.4	
3840	1:04:00	77.2	63.0	167.3	0.1	0.06	6.6	
3855	1:04:15	77.2	63.0	166.8	0.1	0.06	6.7	
3870	1:04:30	77.3	63.0	166.9	0.1	0.06	6.7	
3885	1:04:45	77.4	63.0	167.0	0.1	0.06	6.7	
3900	1:05:00	78.1	63.0	167.1	0.1	0.06	6.7	Start Low NOx Bias IN
3915	1:05:15	78.1	62.9	167.2	0.1	0.06	6.7	
3930	1:05:30	77.8	63.0	166.4	0.1	0.06	6.7	
3945	1:05:45	77.6	63.0	166.6	0.1	0.07	6.7	
3960	1:06:00	77.5	63.0	166.6	0.0	0.07	6.7	
3975	1:06:15	77.5	63.0	167.0	0.1	0.07	6.7	
3990	1:06:30	77.5	62.9	166.3	0.0	0.07	6.7	
4005	1:06:45	77.5	62.9	167.3	0.0	0.07	6.7	
4020	1:07:00	77.6	62.9	167.4	0.1	0.07	6.7	
4035	1:07:15	77.4	63.0	167.7	0.0	0.07	6.7	
4050	1:07:30	77.4	62.9	167.0	0.0	0.07	6.7	
4065	1:07:45	78.4	63.0	166.5	0.0	0.07	6.7	
4080	1:08:00	78.2	62.9	167.0	0.0	0.07	6.7	
4095	1:08:15	78.2	63.0	166.4	0.0	0.07	6.7	
4110	1:08:30	78.4	63.0	166.6	0.0	0.08	6.7	
4125	1:08:45	78.8	62.9	167.6	0.1	0.08	6.7	
4140	1:09:00	78.4	63.0	170.1	0.1	0.08	6.7	
4155	1:09:15	78.6	63.3	171.1	0.1	0.08	6.7	
4170	1:09:30	78.4	63.6	171.8	0.1	0.08	6.7	
4185	1:09:45	78.4	63.8	172.1	0.1	0.08	6.7	
4200	1:10:00	78.7	63.8	171.8	0.1	0.08	6.7	System Low NOx IN
4215	1:10:15	78.1	63.9	172.4	0.1	0.08	6.7	
4230	1:10:30	77.9	63.9	172.6	0.6	0.08	6.7	
4245	1:10:45	77.9	63.9	172.7	0.6	0.08	6.7	
4260	1:11:00	77.9	64.0	173.5	0.6	0.08	6.3	
4275	1:11:15	77.8	64.0	173.6	0.6	0.08	6.0	
4290	1:11:30	77.7	64.0	173.5	0.6	0.09	0.2	
4305	1:11:45	77.8	64.2	173.9	0.6	0.09	1.0	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
4320	1:12:00	78.2	64.3	173.3	0.6	0.09	1.0	
4335	1:12:15	78.7	64.3	172.2	4.7	0.09	0.3	
4350	1:12:30	77.9	64.5	172.8	54.4	6.25	0.7	
4365	1:12:45	77.7	64.4	172.6	74.1	8.83	6.8	
4380	1:13:00	78.1	64.6	173.3	77.3	8.97	13.3	
4395	1:13:15	78.1	64.7	174.6	79.4	9.02	13.7	
4410	1:13:30	79.2	64.8	175.5	79.4	9.02	14.1	
4425	1:13:45	78.4	64.8	173.9	78.9	9.01	14.1	
4440	1:14:00	78.0	64.9	174.6	78.4	9.01	14.3	
4455	1:14:15	77.7	64.9	175.7	78.9	9.02	14.3	
4470	1:14:30	77.9	65.0	176.0	79.4	9.04	14.5	
4485	1:14:45	77.9	65.1	175.6	79.9	9.05	14.6	
4500	1:15:00	77.8	65.4	175.2	79.9	9.05	14.8	
4515	1:15:15	77.9	65.6	174.6	80.5	9.06	14.8	
4530	1:15:30	78.7	65.8	175.6	80.5	9.07	15.1	
4545	1:15:45	78.5	65.8	174.1	80.5	9.07	15.2	
4560	1:16:00	77.9	65.8	174.1	80.5	9.06	15.2	
4575	1:16:15	78.2	66.4	175.2	80.5	9.05	15.2	
4590	1:16:30	78.4	67.1	176.2	81.0	9.06	15.3	
4605	1:16:45	78.7	67.4	175.6	80.5	9.07	15.4	
4620	1:17:00	78.3	67.5	174.8	80.0	9.05	15.4	
4635	1:17:15	78.0	67.7	176.2	78.9	9.03	15.3	
4650	1:17:30	77.9	67.7	176.3	79.4	9.04	15.2	
4665	1:17:45	77.8	67.8	176.1	80.0	9.05	15.3	
4680	1:18:00	77.8	67.7	177.2	79.4	9.06	15.4	
4695	1:18:15	78.4	67.8	175.8	78.9	9.05	15.4	
4710	1:18:30	78.6	67.9	177.9	78.9	9.05	15.3	
4725	1:18:45	78.4	67.9	176.9	78.4	9.03	15.3	
4740	1:19:00	79.0	67.9	178.0	78.4	9.03	15.3	
4755	1:19:15	78.2	67.9	177.4	78.9	9.04	15.3	
4770	1:19:30	78.2	67.9	177.5	78.4	9.04	15.4	
4785	1:19:45	78.2	67.9	177.2	78.4	9.04	15.3	
4800	1:20:00	78.1	67.8	178.1	78.4	9.04	15.3	
4815	1:20:15	78.9	67.9	177.4	77.8	9.03	15.4	
4830	1:20:30	78.3	67.8	177.6	77.8	9.03	15.3	
4845	1:20:45	78.1	67.9	176.8	77.8	9.02	15.3	
4860	1:21:00	78.2	67.9	177.4	77.8	9.02	15.3	
4875	1:21:15	77.8	67.8	177.1	78.4	9.03	15.3	
4890	1:21:30	77.9	67.8	177.4	78.4	9.03	15.5	
4905	1:21:45	78.0	68.0	176.9	78.9	9.04	15.4	
4920	1:22:00	77.8	67.9	177.3	78.9	9.04	15.4	
4935	1:22:15	78.6	68.0	177.4	78.9	9.04	15.4	
4950	1:22:30	78.1	68.5	176.5	79.4	9.04	15.3	
4965	1:22:45	77.8	69.1	177.6	79.4	9.04	15.4	
4980	1:23:00	77.8	69.4	176.9	79.9	9.05	15.5	
4995	1:23:15	77.9	69.5	177.1	80.0	9.05	15.4	
5010	1:23:30	78.1	69.5	177.8	80.5	9.06	15.5	
5025	1:23:45	77.7	69.6	177.3	79.4	9.04	15.5	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5040	1:24:00	77.7	69.7	178.2	79.4	9.05	15.4	
5055	1:24:15	78.3	69.6	178.2	79.4	9.05	15.4	
5070	1:24:30	78.4	69.7	178.7	78.9	9.04	15.4	
5085	1:24:45	77.9	69.5	178.6	78.9	9.04	15.3	
5100	1:25:00	78.1	69.6	179.1	79.4	9.04	15.3	
5115	1:25:15	77.8	69.6	178.7	79.4	9.04	15.4	
5130	1:25:30	77.7	69.6	178.7	80.0	9.06	15.4	
5145	1:25:45	78.4	69.6	179.9	79.4	9.04	15.4	
5160	1:26:00	78.0	69.6	178.7	78.4	9.02	15.3	
5175	1:26:15	77.9	69.6	178.5	78.4	9.02	15.3	
5190	1:26:30	77.9	69.6	179.6	78.9	9.04	15.3	
5205	1:26:45	77.9	69.5	180.0	78.9	9.04	15.3	
5220	1:27:00	77.9	69.5	178.7	79.4	9.05	15.4	
5235	1:27:15	78.6	69.6	179.4	80.0	9.06	15.5	
5250	1:27:30	78.6	69.6	179.0	80.0	9.06	15.7	
5265	1:27:45	78.8	69.6	180.1	80.0	9.05	15.6	
5280	1:28:00	78.7	69.5	178.6	80.0	9.05	15.5	
5295	1:28:15	78.5	69.5	179.3	80.0	9.05	15.4	
5310	1:28:30	78.0	69.5	179.2	80.5	9.05	15.5	
5325	1:28:45	78.0	69.4	178.8	80.5	9.06	15.5	
5340	1:29:00	77.9	69.5	179.7	81.0	9.07	15.6	Start High Fire Equilibrium - #1
5355	1:29:15	78.1	69.5	180.1	81.0	9.06	15.7	
5370	1:29:30	78.3	69.5	179.8	80.5	9.05	15.6	
5385	1:29:45	78.2	69.5	180.1	80.0	9.05	15.6	
5400	1:30:00	78.0	69.5	178.5	80.0	9.05	15.5	
5415	1:30:15	78.0	69.6	179.7	80.0	9.05	15.5	
5430	1:30:30	77.8	69.5	178.6	79.4	9.05	15.5	
5445	1:30:45	77.7	69.5	178.7	78.9	9.04	15.5	
5460	1:31:00	77.9	69.5	179.5	78.4	9.02	15.4	
5475	1:31:15	78.3	69.6	178.6	79.2	9.03	15.3	
5490	1:31:30	78.0	69.5	179.1	79.4	9.04	15.5	
5505	1:31:45	78.0	69.5	179.2	80.0	9.05	15.5	
5520	1:32:00	78.3	69.5	179.8	79.4	9.04	15.4	
5535	1:32:15	78.2	69.5	179.3	80.0	9.05	15.4	
5550	1:32:30	78.4	69.5	179.5	79.4	9.04	15.5	
5565	1:32:45	78.3	69.5	179.4	80.0	9.05	15.5	
5580	1:33:00	78.7	69.6	179.9	79.4	9.04	15.4	
5595	1:33:15	78.4	69.5	179.5	78.9	9.03	15.4	
5610	1:33:30	78.5	69.5	178.9	78.9	9.04	15.4	
5625	1:33:45	78.3	69.5	179.0	79.4	9.04	15.3	
5640	1:34:00	78.4	69.4	179.5	79.4	9.04	15.3	End High Fire Equilibrium - #1
5655	1:34:15	78.3	69.5	179.2	79.4	9.04	15.4	
5670	1:34:30	78.5	69.5	178.4	79.4	9.05	15.3	
5685	1:34:45	78.1	69.4	179.6	78.9	9.03	15.3	Start Test - High Fire - #1
5700	1:35:00	78.3	69.5	179.5	80.0	9.04	15.3	
5715	1:35:15	78.2	69.4	179.4	80.5	9.05	15.4	
5730	1:35:30	78.1	69.5	179.4	80.5	9.06	15.6	
5745	1:35:45	78.3	69.4	179.3	80.5	9.06	15.5	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
5760	1:36:00	78.9	69.5	179.3	81.0	9.06	15.5	
5775	1:36:15	78.4	69.5	179.5	80.5	9.05	15.6	
5790	1:36:30	78.7	69.4	178.6	80.5	9.05	15.5	
5805	1:36:45	78.4	69.4	178.4	81.0	9.06	15.6	
5820	1:37:00	78.5	69.4	178.8	80.5	9.06	15.6	
5835	1:37:15	78.7	69.3	178.2	80.0	9.04	15.5	
5850	1:37:30	78.3	69.5	178.7	79.4	9.04	15.4	
5865	1:37:45	78.3	69.4	179.4	79.4	9.03	15.4	
5880	1:38:00	78.6	69.5	179.2	79.4	9.03	15.4	
5895	1:38:15	78.2	69.5	179.3	79.4	9.04	15.4	
5910	1:38:30	78.4	69.5	179.3	79.4	9.05	15.5	
5925	1:38:45	78.2	69.5	178.5	80.0	9.05	15.5	
5940	1:39:00	78.3	69.5	179.1	80.0	9.04	15.5	
5955	1:39:15	78.2	69.5	179.3	80.0	9.04	15.5	
5970	1:39:30	78.4	69.6	179.0	80.5	9.05	15.5	
5985	1:39:45	78.5	69.5	178.5	80.0	9.05	15.5	
6000	1:40:00	78.8	69.5	178.9	80.0	9.04	15.5	
6015	1:40:15	79.1	69.5	179.0	80.0	9.04	15.5	
6030	1:40:30	79.2	69.5	180.4	80.0	9.04	15.5	
6045	1:40:45	78.3	69.5	178.4	80.0	9.04	15.5	
6060	1:41:00	78.4	69.7	180.1	80.0	9.04	15.5	
6075	1:41:15	78.7	69.6	178.7	81.0	9.05	15.5	
6090	1:41:30	78.9	69.7	178.6	80.5	9.05	15.7	
6105	1:41:45	78.5	69.7	178.8	80.0	9.05	15.6	
6120	1:42:00	78.3	69.6	179.0	80.0	9.04	15.5	
6135	1:42:15	78.6	69.6	180.0	79.4	9.03	15.5	
6150	1:42:30	78.8	69.6	178.2	79.4	9.03	15.4	
6165	1:42:45	78.2	69.6	179.0	78.9	9.03	15.4	
6180	1:43:00	78.2	69.7	179.3	79.4	9.02	15.3	
6195	1:43:15	78.8	69.6	178.6	80.0	9.04	15.3	
6210	1:43:30	78.2	69.5	178.2	79.4	9.03	15.5	
6225	1:43:45	78.2	69.5	178.8	79.4	9.03	15.4	
6240	1:44:00	78.4	69.6	178.1	80.0	9.04	15.4	
6255	1:44:15	78.3	69.5	178.7	80.0	9.05	15.4	
6270	1:44:30	78.3	69.5	179.9	80.0	9.05	15.6	
6285	1:44:45	78.4	69.5	179.3	80.5	9.04	15.5	
6300	1:45:00	78.2	69.6	179.5	80.0	9.05	15.4	
6315	1:45:15	78.4	69.5	179.1	79.4	9.04	15.4	
6330	1:45:30	78.2	69.7	179.8	80.0	9.04	15.3	
6345	1:45:45	78.3	69.5	178.8	79.4	9.03	15.4	
6360	1:46:00	78.3	69.6	179.1	80.0	9.03	15.5	
6375	1:46:15	78.3	69.6	179.9	79.4	9.04	15.5	
6390	1:46:30	79.0	69.4	179.6	79.4	9.04	15.4	
6405	1:46:45	78.5	69.5	179.4	80.0	9.04	15.4	
6420	1:47:00	78.2	69.5	179.9	80.0	9.04	15.5	
6435	1:47:15	78.1	69.5	179.5	80.0	9.04	15.5	
6450	1:47:30	78.6	69.5	179.6	79.4	9.04	15.5	
6465	1:47:45	78.8	69.5	179.6	78.9	9.03	15.5	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
6480	1:48:00	78.7	69.5	178.6	78.9	9.02	15.5
6495	1:48:15	78.3	69.5	178.9	78.9	9.03	15.4
6510	1:48:30	78.1	69.6	179.6	78.9	9.03	15.5
6525	1:48:45	78.5	69.5	179.1	77.8	9.02	15.5
6540	1:49:00	79.0	69.5	179.2	77.8	9.01	15.4
6555	1:49:15	78.4	69.6	179.9	77.8	9.02	15.3
6570	1:49:30	78.4	69.6	178.7	78.4	9.02	15.3
6585	1:49:45	78.3	69.7	179.1	78.4	9.03	15.3
6600	1:50:00	78.3	69.7	179.4	78.4	9.03	15.4
6615	1:50:15	78.2	69.7	178.8	78.4	9.03	15.5
6630	1:50:30	78.5	69.7	178.9	78.4	9.04	15.4
6645	1:50:45	78.5	69.6	178.6	78.4	9.04	15.5
6660	1:51:00	79.2	69.7	179.0	78.4	9.04	15.5
6675	1:51:15	78.8	69.7	179.6	77.8	9.03	15.5
6690	1:51:30	78.5	69.7	179.0	77.8	9.02	15.4
6705	1:51:45	78.4	69.6	178.0	78.3	9.03	15.4
6720	1:52:00	78.3	69.7	178.9	78.4	9.04	15.5
6735	1:52:15	78.2	69.6	178.8	78.4	9.03	15.5
6750	1:52:30	78.5	69.6	180.1	78.3	9.03	15.3
6765	1:52:45	78.7	69.7	178.8	77.8	9.03	15.3
6780	1:53:00	78.5	69.6	178.3	78.3	9.03	15.3
6795	1:53:15	78.4	69.6	178.8	78.9	9.04	15.3
6810	1:53:30	78.6	69.6	178.9	78.3	9.04	15.6
6825	1:53:45	78.7	69.6	179.7	78.3	9.03	15.5
6840	1:54:00	79.3	69.6	179.8	78.9	9.05	15.4
6855	1:54:15	78.7	69.5	180.7	78.9	9.04	15.5
6870	1:54:30	78.8	69.6	179.6	78.9	9.04	15.5
6885	1:54:45	78.7	69.6	180.2	78.9	9.04	15.5
6900	1:55:00	78.6	69.5	180.1	79.4	9.05	15.5
6915	1:55:15	78.8	69.6	179.2	79.4	9.05	15.6
6930	1:55:30	78.9	69.7	178.5	78.9	9.04	15.6
6945	1:55:45	78.5	69.6	179.8	78.9	9.04	15.5
6960	1:56:00	78.6	69.5	179.8	78.9	9.04	15.5
6975	1:56:15	79.8	69.5	179.9	78.9	9.04	15.5
6990	1:56:30	79.5	69.6	179.0	78.9	9.04	15.5
7005	1:56:45	79.3	69.5	179.5	79.4	9.04	15.5
7020	1:57:00	79.5	69.6	179.6	79.4	9.04	15.5
7035	1:57:15	79.2	69.5	178.7	78.9	9.04	15.6
7050	1:57:30	79.5	69.6	180.4	78.9	9.04	15.5
7065	1:57:45	79.5	69.6	179.2	78.9	9.05	15.5
7080	1:58:00	79.6	69.5	180.1	79.4	9.05	15.5
7095	1:58:15	78.7	69.5	178.7	79.4	9.04	15.6
7110	1:58:30	78.7	69.6	179.5	79.4	9.05	15.5
7125	1:58:45	78.6	69.5	180.8	78.9	9.04	15.5
7140	1:59:00	78.4	69.5	179.9	78.3	9.03	15.5
7155	1:59:15	78.7	69.5	178.7	78.3	9.01	15.5
7170	1:59:30	79.1	69.5	179.6	78.3	9.02	15.4
7185	1:59:45	78.9	69.5	179.4	78.3	9.03	15.5

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7200	2:00:00	78.8	69.5	179.9	78.9	9.03	15.5	
7215	2:00:15	78.6	69.5	179.3	78.3	9.04	15.5	
7230	2:00:30	78.8	69.5	179.7	78.9	9.05	15.6	
7245	2:00:45	78.9	69.5	179.0	79.4	9.05	15.6	
7260	2:01:00	78.9	69.6	180.0	78.9	9.03	15.7	
7275	2:01:15	78.7	69.6	179.7	78.9	9.03	15.6	
7290	2:01:30	78.4	69.6	179.1	78.3	9.03	15.5	
7305	2:01:45	78.4	69.5	180.0	78.3	9.03	15.5	
7320	2:02:00	78.8	69.6	179.0	78.3	9.03	15.5	Start Emissions
7335	2:02:15	79.5	69.5	178.9	78.3	9.03	15.5	
7350	2:02:30	78.6	69.5	178.7	77.8	9.02	15.5	
7365	2:02:45	78.5	69.4	179.1	77.8	9.02	15.4	
7380	2:03:00	78.5	69.5	179.3	77.8	9.02	15.4	1st Minute
7395	2:03:15	78.6	69.5	179.0	78.3	9.03	15.4	
7410	2:03:30	79.0	69.5	180.4	78.9	9.04	15.5	
7425	2:03:45	78.8	69.6	179.3	78.9	9.04	15.5	
7440	2:04:00	78.5	69.6	180.0	79.4	9.04	15.6	2nd Minute
7455	2:04:15	78.5	69.5	180.6	78.9	9.04	15.5	
7470	2:04:30	78.8	69.5	178.7	79.4	9.04	15.5	
7485	2:04:45	78.8	69.5	179.7	79.4	9.04	15.5	
7500	2:05:00	78.6	69.4	181.3	78.9	9.03	15.5	3rd Minute / EOT - High Fire - #1
7515	2:05:15	78.4	69.5	180.2	78.9	9.03	15.5	
7530	2:05:30	78.5	69.4	179.0	78.9	9.03	15.5	CO2 (Avg) % = 9.03
7545	2:05:45	78.8	69.4	179.5	79.4	9.04	15.5	NOx (Avg) ppm = 15.5
7560	2:06:00	78.7	69.3	179.6	79.4	9.05	15.5	CO (Max) ppm = 81.0
7575	2:06:15	78.8	69.3	178.9	78.9	9.04	15.6	Ambient (Avg) F = 78.6
7590	2:06:30	78.5	69.2	179.1	78.9	9.04	15.4	T_In (Avg) F = 69.5
7605	2:06:45	78.5	69.3	179.2	79.4	9.05	15.5	T_Del (Avg) F = 179.3
7620	2:07:00	78.7	69.3	180.4	79.9	9.05	15.5	
7635	2:07:15	78.6	69.3	179.9	79.9	9.05	15.6	
7650	2:07:30	78.7	69.3	180.4	79.9	9.05	15.5	
7665	2:07:45	78.8	69.3	179.6	79.9	9.06	15.6	
7680	2:08:00	79.1	69.2	179.2	79.9	9.05	15.6	
7695	2:08:15	78.8	69.3	180.4	79.9	9.05	15.6	
7710	2:08:30	78.7	69.1	179.5	79.9	9.05	15.6	
7725	2:08:45	79.4	69.2	179.5	79.9	9.06	15.5	
7740	2:09:00	80.2	69.2	179.5	79.4	9.06	15.5	
7755	2:09:15	79.4	69.2	179.3	79.4	9.05	15.6	
7770	2:09:30	78.8	69.2	180.4	79.4	9.04	15.5	
7785	2:09:45	78.7	69.3	179.0	79.9	9.05	15.5	
7800	2:10:00	78.6	69.2	179.5	79.9	9.06	15.6	
7815	2:10:15	78.9	69.2	180.1	79.4	9.06	15.7	
7830	2:10:30	79.4	69.2	180.3	79.4	9.05	15.6	
7845	2:10:45	79.6	69.1	179.7	78.9	9.04	15.6	
7860	2:11:00	79.1	69.2	180.2	78.9	9.04	15.5	
7875	2:11:15	79.1	69.2	179.8	78.9	9.04	15.5	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7890	2:11:30	78.8	69.2	179.7	78.9	9.05	15.5	
7905	2:11:45	78.6	69.1	179.2	78.9	9.04	15.5	
7920	2:12:00	78.6	69.3	178.6	78.3	9.04	15.6	
7935	2:12:15	78.7	69.2	167.6	67.2	9.04	15.5	
7950	2:12:30	78.8	69.2	154.5	50.1	9.00	15.6	
7965	2:12:45	78.9	69.1	148.4	46.4	8.98	15.3	
7980	2:13:00	78.8	69.0	144.5	45.3	8.98	15.0	
7995	2:13:15	78.7	68.9	142.3	44.5	8.97	15.1	
8010	2:13:30	78.7	68.7	141.4	44.3	8.97	14.8	
8025	2:13:45	78.6	68.5	141.1	43.7	8.97	14.8	
8040	2:14:00	78.6	68.3	140.8	43.7	8.98	14.8	
8055	2:14:15	79.2	68.0	140.8	43.2	8.97	14.9	
8070	2:14:30	79.0	67.6	141.7	43.2	8.96	14.7	
8085	2:14:45	79.0	67.6	139.9	42.7	8.96	14.6	
8100	2:15:00	78.9	67.4	143.9	42.7	8.96	14.5	
8115	2:15:15	78.7	67.3	152.5	42.7	8.97	14.5	
8130	2:15:30	78.8	68.1	163.5	42.7	8.97	14.5	
8145	2:15:45	78.8	68.8	170.4	42.7	8.96	14.6	
8160	2:16:00	79.4	67.8	174.5	42.1	8.95	14.5	
8175	2:16:15	79.1	67.1	177.5	42.1	8.95	14.5	
8190	2:16:30	79.0	66.7	178.0	42.7	8.95	14.5	
8205	2:16:45	79.0	66.7	179.0	42.7	8.97	14.5	
8220	2:17:00	79.0	66.5	178.4	42.7	8.96	14.6	
8235	2:17:15	79.1	66.6	178.1	42.1	8.96	14.5	
8250	2:17:30	79.2	66.6	178.2	41.6	8.95	14.6	
8265	2:17:45	79.1	66.5	177.0	41.6	8.95	14.6	
8280	2:18:00	79.0	66.7	176.5	42.1	8.95	14.5	
8295	2:18:15	80.1	67.2	176.5	42.1	8.96	14.4	
8310	2:18:30	79.3	67.7	176.9	42.1	8.96	14.5	
8325	2:18:45	78.9	68.1	177.0	42.1	8.95	14.5	
8340	2:19:00	79.2	68.7	178.6	42.1	8.96	14.5	
8355	2:19:15	79.5	69.2	177.0	42.1	8.96	14.5	
8370	2:19:30	79.5	69.6	177.1	41.6	8.96	14.4	
8385	2:19:45	79.8	70.0	176.6	41.1	8.96	14.5	
8400	2:20:00	79.1	70.2	176.0	41.1	8.96	14.5	
8415	2:20:15	79.3	70.3	176.4	41.1	8.96	14.5	
8430	2:20:30	79.5	70.5	176.3	41.1	8.96	14.6	
8445	2:20:45	80.1	70.6	175.9	40.5	8.96	14.5	
8460	2:21:00	79.2	70.6	176.7	41.1	8.95	14.5	
8475	2:21:15	79.0	70.7	177.5	40.5	8.96	14.5	
8490	2:21:30	80.7	70.8	177.0	41.1	8.97	14.5	
8505	2:21:45	80.5	70.8	177.1	41.1	8.97	14.5	
8520	2:22:00	79.8	70.8	178.9	41.1	8.96	14.6	
8535	2:22:15	79.2	70.9	177.9	41.1	8.96	14.6	
8550	2:22:30	79.5	70.8	178.5	40.5	8.96	14.5	
8565	2:22:45	79.8	71.0	177.1	40.5	8.97	14.5	
8580	2:23:00	80.2	71.0	177.6	40.5	8.96	14.5	
8595	2:23:15	80.0	71.0	179.0	40.5	8.96	14.5	

Manufacturer: RIELLO
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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
8610	2:23:30	79.9	71.1	177.7	40.5	8.97	14.4	Start Mid Fire Equilibrium - #1
8625	2:23:45	79.8	71.1	177.7	40.5	8.96	14.5	
8640	2:24:00	80.2	71.2	178.5	40.5	8.96	14.6	
8655	2:24:15	79.9	71.1	178.4	40.5	8.96	14.6	
8670	2:24:30	79.8	71.2	178.2	41.1	8.96	14.6	
8685	2:24:45	79.6	71.2	178.8	41.1	8.97	14.6	
8700	2:25:00	79.6	71.3	178.5	41.1	8.96	14.6	
8715	2:25:15	79.5	71.3	178.5	40.5	8.96	14.6	
8730	2:25:30	79.4	71.3	179.2	40.5	8.95	14.6	
8745	2:25:45	79.5	71.4	179.6	41.1	8.96	14.5	
8760	2:26:00	79.7	71.4	178.9	41.1	8.98	14.6	
8775	2:26:15	80.1	71.4	178.4	41.1	8.98	14.6	
8790	2:26:30	80.1	71.4	179.1	41.1	8.97	14.7	
8805	2:26:45	79.8	71.5	178.6	41.1	8.98	14.6	
8820	2:27:00	80.1	71.5	178.0	41.6	8.98	14.6	
8835	2:27:15	80.2	71.5	178.6	42.1	8.98	14.7	
8850	2:27:30	80.1	71.4	179.0	42.1	8.98	14.7	
8865	2:27:45	80.3	71.5	179.2	42.1	8.98	14.7	
8880	2:28:00	80.6	71.6	180.1	41.6	8.98	14.7	
8895	2:28:15	80.4	71.5	179.4	42.1	8.98	14.7	
8910	2:28:30	80.3	71.6	178.7	42.1	8.98	14.8	End Mid Fire Equilibrium - #1
8925	2:28:45	80.1	71.6	178.2	41.6	8.98	14.8	
8940	2:29:00	79.8	71.6	178.9	41.6	8.97	14.7	
8955	2:29:15	80.1	71.6	179.5	41.6	8.96	14.7	
8970	2:29:30	80.8	71.7	179.4	41.6	8.98	14.6	
8985	2:29:45	80.5	71.7	179.0	42.1	8.98	14.7	Start Test - Mid Fire - #1
9000	2:30:00	80.3	71.7	180.2	41.6	8.98	14.8	
9015	2:30:15	80.5	71.7	180.4	41.6	8.98	14.8	
9030	2:30:30	80.0	71.6	179.6	41.1	8.99	14.8	
9045	2:30:45	80.0	71.6	180.3	41.1	8.98	14.8	
9060	2:31:00	80.2	71.5	180.5	41.6	8.98	14.7	
9075	2:31:15	80.7	71.4	179.7	41.1	8.99	14.7	
9090	2:31:30	80.2	71.1	180.0	41.1	8.98	14.7	
9105	2:31:45	80.3	70.9	179.9	41.1	8.98	14.7	
9120	2:32:00	79.9	70.9	179.8	41.6	8.98	14.7	
9135	2:32:15	80.6	70.7	180.6	41.1	8.97	14.7	
9150	2:32:30	80.8	70.7	179.7	41.1	8.97	14.7	
9165	2:32:45	80.2	70.8	180.7	41.6	8.98	14.7	
9180	2:33:00	80.5	70.9	180.3	41.1	8.98	14.7	
9195	2:33:15	81.1	70.9	180.6	41.1	8.98	14.7	
9210	2:33:30	80.4	70.9	179.0	41.6	8.98	14.7	
9225	2:33:45	79.9	71.1	179.0	41.1	8.98	14.7	
9240	2:34:00	79.8	71.1	180.6	41.1	8.99	14.8	
9255	2:34:15	80.5	71.1	178.9	41.1	8.99	14.8	
9270	2:34:30	79.9	71.1	180.9	41.1	8.98	14.6	
9285	2:34:45	80.5	71.1	179.0	41.1	8.98	14.5	
9300	2:35:00	80.0	71.1	179.1	41.1	8.98	14.5	
9315	2:35:15	80.8	71.1	180.3	41.1	8.97	14.6	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
9330	2:35:30	80.8	71.1	179.0	40.5	8.97	14.4
9345	2:35:45	79.9	71.2	180.0	40.5	8.97	14.5
9360	2:36:00	80.5	71.1	179.0	40.5	8.98	14.5
9375	2:36:15	80.1	71.3	180.0	41.1	8.98	14.6
9390	2:36:30	80.5	71.2	179.4	40.5	8.97	14.6
9405	2:36:45	79.9	71.2	179.7	40.5	8.97	14.6
9420	2:37:00	80.2	71.2	179.4	40.5	8.96	14.6
9435	2:37:15	80.0	71.2	179.4	40.5	8.97	14.6
9450	2:37:30	80.4	71.2	179.0	40.5	8.98	14.7
9465	2:37:45	80.7	71.3	179.7	40.5	8.98	14.7
9480	2:38:00	80.1	71.4	180.2	40.5	8.97	14.6
9495	2:38:15	80.3	71.3	179.3	40.5	8.96	14.6
9510	2:38:30	80.4	71.2	179.1	40.0	8.97	14.5
9525	2:38:45	80.1	71.3	179.2	40.5	8.97	14.5
9540	2:39:00	80.8	71.3	179.5	40.5	8.98	14.6
9555	2:39:15	80.8	71.3	179.7	40.0	8.97	14.7
9570	2:39:30	80.2	71.3	180.3	40.0	8.97	14.4
9585	2:39:45	80.4	71.4	179.2	40.0	8.97	14.4
9600	2:40:00	80.3	71.3	179.9	40.0	8.97	14.5
9615	2:40:15	80.1	71.3	180.0	40.0	8.97	14.5
9630	2:40:30	80.2	71.4	179.7	40.0	8.96	14.6
9645	2:40:45	80.0	71.3	180.4	40.0	8.97	14.5
9660	2:41:00	80.4	71.2	179.9	40.0	8.97	14.4
9675	2:41:15	80.1	71.2	180.8	40.0	8.96	14.4
9690	2:41:30	79.8	71.1	179.1	40.5	8.97	14.5
9705	2:41:45	79.9	71.2	179.4	40.0	8.96	14.5
9720	2:42:00	80.4	71.2	180.2	40.0	8.96	14.5
9735	2:42:15	80.2	71.2	180.5	40.0	8.95	14.4
9750	2:42:30	80.3	71.2	179.9	40.0	8.96	14.3
9765	2:42:45	80.1	71.2	180.0	40.5	8.97	14.4
9780	2:43:00	79.8	71.3	179.6	40.5	8.97	14.4
9795	2:43:15	80.5	71.3	180.6	40.0	8.96	14.4
9810	2:43:30	80.3	71.3	179.8	40.0	8.95	14.5
9825	2:43:45	80.2	71.3	180.1	40.0	8.95	14.5
9840	2:44:00	80.1	71.4	179.8	40.0	8.95	14.4
9855	2:44:15	80.1	71.3	180.2	40.0	8.96	14.3
9870	2:44:30	80.6	71.3	180.1	40.0	8.96	14.5
9885	2:44:45	80.3	71.3	179.3	40.5	8.96	14.5
9900	2:45:00	80.3	71.4	180.2	40.0	8.97	14.5
9915	2:45:15	80.2	71.3	180.7	40.0	8.96	14.6
9930	2:45:30	80.8	71.5	179.9	39.5	8.95	14.5
9945	2:45:45	80.8	71.3	179.3	40.0	8.96	14.4
9960	2:46:00	81.0	71.4	179.6	40.0	8.96	14.4
9975	2:46:15	80.5	71.4	180.5	40.0	8.97	14.5
9990	2:46:30	80.6	71.4	179.5	40.0	8.97	14.6
10005	2:46:45	81.1	71.3	179.5	40.0	8.96	14.6
10020	2:47:00	80.2	71.3	180.5	40.0	8.97	14.5
10035	2:47:15	80.0	71.4	180.3	39.5	8.96	14.5

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10050	2:47:30	79.5	71.3	180.3	40.0	8.96	14.4	
10065	2:47:45	80.1	71.3	179.4	39.5	8.96	14.4	
10080	2:48:00	80.4	71.3	180.5	39.5	8.96	14.4	
10095	2:48:15	80.8	71.4	179.3	40.0	8.97	14.4	
10110	2:48:30	80.6	71.3	180.4	40.0	8.97	14.5	
10125	2:48:45	80.9	71.4	181.0	40.5	8.97	14.6	
10140	2:49:00	81.6	71.4	179.8	40.5	8.97	14.6	
10155	2:49:15	81.4	71.4	180.8	40.0	8.97	14.6	
10170	2:49:30	80.1	71.3	181.3	40.0	8.98	14.5	
10185	2:49:45	80.4	71.4	180.9	40.5	8.97	14.6	
10200	2:50:00	80.5	71.4	179.9	40.0	8.97	14.6	
10215	2:50:15	80.4	71.4	180.3	40.3	8.98	14.6	
10230	2:50:30	80.9	71.4	180.7	40.5	8.98	14.5	
10245	2:50:45	80.7	71.3	180.2	40.5	8.99	14.6	
10260	2:51:00	80.8	71.2	180.7	40.5	8.98	14.6	
10275	2:51:15	80.4	71.3	180.4	40.5	8.98	14.6	
10290	2:51:30	81.3	71.4	181.0	40.3	8.97	14.7	
10305	2:51:45	81.0	71.4	180.6	40.5	8.99	14.7	
10320	2:52:00	81.1	71.3	180.2	40.5	8.99	14.6	
10335	2:52:15	81.3	71.3	180.3	40.0	8.98	14.7	
10350	2:52:30	81.5	71.3	180.3	40.5	8.99	14.5	
10365	2:52:45	81.4	71.2	179.9	40.5	8.99	14.6	
10380	2:53:00	80.4	71.2	180.6	40.0	8.98	14.7	
10395	2:53:15	81.1	71.3	179.8	40.5	8.98	14.6	
10410	2:53:30	80.5	71.3	181.0	41.0	8.99	14.6	
10425	2:53:45	80.6	71.2	180.0	40.5	8.99	14.7	
10440	2:54:00	81.3	71.3	181.6	40.5	8.98	14.7	
10455	2:54:15	81.3	71.3	180.5	40.5	8.99	14.7	
10470	2:54:30	81.4	71.3	181.6	40.5	8.99	14.8	
10485	2:54:45	80.9	71.3	180.5	40.5	8.98	14.7	
10500	2:55:00	80.6	71.3	180.6	40.5	8.98	14.7	
10515	2:55:15	80.7	71.4	180.7	40.5	8.99	14.7	
10530	2:55:30	80.4	71.4	180.2	40.5	8.99	14.7	
10545	2:55:45	80.4	71.4	180.6	40.5	8.98	14.7	
10560	2:56:00	80.4	71.3	180.3	40.5	8.98	14.7	
10575	2:56:15	80.2	71.3	181.8	40.5	8.98	14.7	
10590	2:56:30	80.1	71.5	180.5	40.0	8.98	14.8	
10605	2:56:45	80.4	71.4	180.1	40.0	8.98	14.7	
10620	2:57:00	81.5	71.4	180.1	40.5	8.98	14.7	Start Emissions
10635	2:57:15	81.5	71.3	181.2	40.5	8.98	14.7	
10650	2:57:30	81.5	71.3	180.1	40.5	8.98	14.7	
10665	2:57:45	80.5	71.4	180.6	40.5	8.99	14.8	
10680	2:58:00	81.1	71.2	180.6	40.0	8.99	14.8	1st Minute
10695	2:58:15	80.6	71.3	180.5	40.0	8.99	14.8	
10710	2:58:30	80.4	71.3	180.4	40.0	8.98	14.8	
10725	2:58:45	81.1	71.4	181.3	40.0	8.99	14.7	
10740	2:59:00	80.5	71.4	180.3	40.0	8.99	14.7	2nd Minute

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10755	2:59:15	80.8	71.5	180.9	40.0	8.98	14.7	
10770	2:59:30	81.0	71.4	181.3	40.0	8.98	14.6	
10785	2:59:45	81.1	71.4	180.7	40.5	8.99	14.7	
10800	3:00:00	81.0	71.5	180.0	39.5	8.98	14.8	3rd Minute / EOT - Mid Fire - #1
10815	3:00:15	80.5	71.4	179.7	40.0	8.98	14.7	
10830	3:00:30	80.8	71.4	180.3	40.0	8.98	14.6	CO2 (Avg) % = 8.98
10845	3:00:45	81.1	71.5	181.6	40.5	9.00	14.7	NOx (Avg) ppm = 14.7
10860	3:01:00	81.9	71.5	180.0	40.5	8.99	14.8	CO (Max) ppm = 41.6
10875	3:01:15	80.9	71.5	180.6	40.0	8.98	14.8	Ambient (Avg) F = 80.5
10890	3:01:30	80.8	71.5	181.2	40.0	8.98	14.7	T_In (Avg) F = 71.3
10905	3:01:45	80.3	71.4	181.6	40.0	8.99	14.7	T_Del (Avg) F = 180.1
10920	3:02:00	80.2	71.4	179.9	40.0	8.98	14.6	
10935	3:02:15	80.5	71.4	180.2	40.0	8.98	14.5	
10950	3:02:30	80.8	71.5	180.6	39.4	8.97	14.5	
10965	3:02:45	81.1	71.4	180.9	39.4	8.97	14.5	
10980	3:03:00	80.6	71.5	181.0	39.4	8.97	14.5	
10995	3:03:15	80.5	71.4	180.0	40.0	8.98	14.5	
11010	3:03:30	79.9	71.4	180.5	40.0	8.99	14.6	
11025	3:03:45	80.6	71.4	181.0	40.0	8.97	14.6	
11040	3:04:00	80.8	71.4	180.9	40.0	8.97	14.5	
11055	3:04:15	80.6	71.4	181.1	40.0	8.97	14.5	
11070	3:04:30	80.8	71.4	181.2	40.0	8.98	14.6	
11085	3:04:45	81.5	71.4	180.1	40.0	8.98	14.5	
11100	3:05:00	80.9	71.4	182.2	40.0	8.98	14.6	
11115	3:05:15	81.3	71.4	181.0	40.5	8.99	14.6	
11130	3:05:30	81.9	71.4	180.6	40.5	8.99	14.7	
11145	3:05:45	81.0	71.4	182.1	40.0	8.99	14.7	
11160	3:06:00	81.0	71.3	181.9	40.0	8.99	14.6	
11175	3:06:15	81.5	71.3	179.5	40.0	8.98	14.5	
11190	3:06:30	80.8	71.4	167.5	32.3	6.16	14.5	
11205	3:06:45	80.4	71.3	124.0	2.7	0.33	9.3	
11220	3:07:00	81.1	67.5	98.8	0.0	0.17	3.2	
11235	3:07:15	81.0	65.1	85.8	0.0	0.13	2.3	
11250	3:07:30	81.3	64.1	79.6	0.0	0.11	2.1	
11265	3:07:45	82.3	63.8	76.5	0.0	0.10	2.0	
11280	3:08:00	80.8	63.6	74.0	0.0	0.10	1.8	
11295	3:08:15	80.6	63.4	71.6	0.0	0.10	1.7	
11310	3:08:30	80.6	63.3	69.6	0.0	0.10	1.5	
11325	3:08:45	80.1	63.3	68.0	0.0	0.10	1.4	
11340	3:09:00	80.3	63.2	66.9	0.0	0.09	1.3	
11355	3:09:15	81.0	63.2	66.1	0.0	0.09	1.3	
11370	3:09:30	80.5	63.1	65.7	0.0	0.09	1.1	
11385	3:09:45	81.4	63.0	65.3	0.0	0.08	1.1	
11400	3:10:00	81.5	62.9	65.2	0.0	0.08	1.0	
11415	3:10:15	80.3	62.9	65.0	0.0	0.08	1.0	
11430	3:10:30	80.6	62.9	64.8	0.0	0.08	0.9	
11445	3:10:45	80.9	62.8	64.7	0.0	0.08	0.9	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
11460	3:11:00	81.0	62.8	64.7	0.0	0.08	0.8	
11475	3:11:15	80.5	62.8	64.6	0.0	0.08	0.8	
11490	3:11:30	80.7	62.7	64.5	0.0	0.07	0.8	
11505	3:11:45	80.9	62.7	64.4	0.0	0.07	0.7	
11520	3:12:00	80.2	62.6	64.3	0.0	0.07	0.7	
11535	3:12:15	80.7	62.6	64.3	0.0	0.07	0.7	
11550	3:12:30	81.2	62.6	64.1	0.0	0.07	0.6	
11565	3:12:45	81.3	62.6	64.1	0.0	0.07	0.6	
11580	3:13:00	81.7	62.5	64.0	0.0	0.07	0.6	
11595	3:13:15	81.1	62.4	64.0	0.0	0.07	0.6	
11610	3:13:30	80.9	62.3	63.9	0.0	0.07	0.6	
11625	3:13:45	80.9	62.3	63.7	0.0	0.06	0.5	
11640	3:14:00	80.7	62.3	63.8	0.0	0.06	0.5	
11655	3:14:15	81.0	62.3	63.7	0.0	0.06	0.5	
11670	3:14:30	80.7	62.2	63.6	0.0	0.06	0.5	
11685	3:14:45	80.4	62.2	63.6	0.0	0.06	0.5	
11700	3:15:00	81.0	62.2	63.5	0.0	0.06	0.5	
11715	3:15:15	80.2	62.2	63.5	0.0	0.06	0.4	
11730	3:15:30	79.8	62.1	63.4	0.0	0.06	0.4	
11745	3:15:45	80.3	62.1	63.4	0.0	0.06	0.4	
11760	3:16:00	80.8	62.1	63.3	0.0	0.06	0.4	
11775	3:16:15	81.4	62.0	63.3	0.0	0.05	0.4	
11790	3:16:30	81.0	62.0	63.2	0.0	0.05	0.4	
11805	3:16:45	80.6	62.0	63.3	0.0	0.05	0.4	
11820	3:17:00	80.4	62.0	71.3	82.3	0.07	0.6	
11835	3:17:15	80.7	61.9	94.1	193.9	7.50	0.7	
11850	3:17:30	80.7	62.0	110.5	44.0	8.64	5.7	
11865	3:17:45	80.4	62.0	120.6	35.7	8.81	8.0	
11880	3:18:00	80.7	61.9	125.1	34.1	8.87	10.9	
11895	3:18:15	80.8	61.9	128.0	33.6	8.89	11.6	
11910	3:18:30	80.1	61.9	129.2	34.1	8.90	12.1	
11925	3:18:45	79.7	61.9	129.8	34.7	8.91	12.3	
11940	3:19:00	80.4	61.9	130.5	35.2	8.91	12.6	
11955	3:19:15	80.6	61.9	131.4	35.7	8.92	12.8	
11970	3:19:30	80.7	61.9	131.6	35.7	8.93	13.1	
11985	3:19:45	80.4	62.5	131.4	36.3	8.94	13.2	
12000	3:20:00	80.2	63.2	131.3	36.8	8.95	13.4	
12015	3:20:15	79.8	63.5	131.2	36.8	8.96	13.6	
12030	3:20:30	79.8	63.8	130.2	36.8	8.96	13.8	
12045	3:20:45	80.3	64.2	135.1	37.8	8.96	13.9	
12060	3:21:00	80.6	64.3	151.8	62.9	8.98	14.0	
12075	3:21:15	80.5	64.3	161.7	70.3	9.02	14.0	
12090	3:21:30	80.7	64.3	167.7	73.5	9.03	14.7	
12105	3:21:45	80.7	64.4	169.7	73.5	9.03	14.7	
12120	3:22:00	81.0	64.4	172.5	74.6	9.03	14.8	
12135	3:22:15	81.2	64.6	172.9	75.1	9.04	14.8	
12150	3:22:30	81.5	64.6	172.9	75.6	9.04	15.1	
12165	3:22:45	81.2	64.7	173.8	76.7	9.06	15.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12180	3:23:00	81.5	64.9	174.2	76.7	9.05	15.3	
12195	3:23:15	81.1	65.2	173.3	76.7	9.06	15.3	
12210	3:23:30	81.0	65.4	174.2	77.2	9.06	15.5	
12225	3:23:45	80.8	65.6	173.1	77.8	9.06	15.6	
12240	3:24:00	80.9	65.8	175.6	77.8	9.07	15.7	
12255	3:24:15	80.8	65.9	174.5	77.8	9.06	15.7	
12270	3:24:30	80.8	66.1	173.8	77.2	9.06	15.8	
12285	3:24:45	81.0	66.2	175.5	77.8	9.07	15.8	
12300	3:25:00	80.6	66.4	175.2	78.3	9.08	15.9	
12315	3:25:15	80.5	66.4	174.8	78.3	9.07	16.0	
12330	3:25:30	80.4	66.4	175.1	77.2	9.06	15.9	
12345	3:25:45	80.1	66.4	175.1	77.8	9.06	15.9	
12360	3:26:00	80.3	66.5	175.7	77.2	9.05	15.9	
12375	3:26:15	80.0	67.1	175.8	77.2	9.05	15.8	
12390	3:26:30	80.0	67.2	176.6	76.7	9.05	15.9	
12405	3:26:45	80.8	67.3	176.4	76.7	9.05	15.8	
12420	3:27:00	81.1	67.3	177.3	77.2	9.05	15.9	
12435	3:27:15	81.1	67.3	177.1	77.2	9.05	16.0	
12450	3:27:30	81.1	67.3	176.6	77.2	9.05	16.0	
12465	3:27:45	81.1	67.5	176.1	77.2	9.05	16.0	
12480	3:28:00	80.6	67.4	177.0	77.8	9.06	16.0	
12495	3:28:15	80.3	67.4	176.4	77.2	9.07	16.0	
12510	3:28:30	80.2	67.4	177.5	77.2	9.06	15.9	
12525	3:28:45	80.0	67.4	178.2	76.7	9.05	15.9	
12540	3:29:00	80.9	67.8	176.8	76.7	9.05	15.9	
12555	3:29:15	81.0	68.6	176.9	76.7	9.05	15.9	
12570	3:29:30	81.9	68.8	177.5	77.8	9.06	15.9	
12585	3:29:45	80.8	68.9	178.2	77.8	9.06	16.0	
12600	3:30:00	81.0	69.0	177.4	77.2	9.06	16.0	
12615	3:30:15	80.8	69.0	177.8	76.7	9.06	15.9	
12630	3:30:30	80.9	69.1	177.9	76.7	9.06	16.0	
12645	3:30:45	80.8	69.1	179.3	77.2	9.06	16.0	
12660	3:31:00	80.9	69.1	178.7	77.8	9.07	16.0	
12675	3:31:15	81.6	69.1	178.1	77.8	9.07	16.1	
12690	3:31:30	80.8	69.2	179.0	77.2	9.07	16.1	
12705	3:31:45	81.3	69.2	179.2	77.8	9.08	16.1	
12720	3:32:00	81.3	69.3	179.3	77.8	9.07	16.1	
12735	3:32:15	81.3	69.3	179.8	77.8	9.08	16.1	
12750	3:32:30	81.0	69.2	178.6	77.2	9.07	16.0	
12765	3:32:45	80.6	69.2	178.9	77.2	9.06	16.0	
12780	3:33:00	81.1	69.2	178.8	77.2	9.06	16.0	
12795	3:33:15	81.4	69.2	179.6	77.2	9.06	16.0	
12810	3:33:30	81.2	69.2	178.5	77.8	9.07	16.0	
12825	3:33:45	81.3	69.2	179.3	77.8	9.07	16.1	
12840	3:34:00	80.9	69.3	178.2	77.8	9.07	16.2	
12855	3:34:15	80.9	69.1	178.1	77.2	9.08	16.1	
12870	3:34:30	80.8	69.2	179.7	76.7	9.06	16.1	
12885	3:34:45	80.9	69.1	179.9	76.7	9.06	16.0	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12900	3:35:00	81.3	69.2	179.5	76.7	9.06	15.9	
12915	3:35:15	82.1	69.1	178.7	76.7	9.07	15.9	
12930	3:35:30	81.0	69.1	178.4	77.2	9.07	16.0	
12945	3:35:45	81.7	69.1	179.0	77.2	9.07	16.0	
12960	3:36:00	81.1	69.1	179.6	76.9	9.07	16.0	
12975	3:36:15	81.6	69.1	178.3	77.2	9.07	16.0	
12990	3:36:30	81.2	69.2	179.2	76.7	9.07	15.9	
13005	3:36:45	81.5	69.1	178.4	76.7	9.06	15.9	
13020	3:37:00	80.9	69.1	180.0	77.2	9.07	15.9	
13035	3:37:15	80.6	69.1	179.4	77.2	9.08	16.0	
13050	3:37:30	81.1	69.1	180.3	76.7	9.07	16.0	
13065	3:37:45	81.0	69.1	178.2	76.7	9.07	15.9	
13080	3:38:00	82.2	69.1	179.2	76.7	9.07	15.8	
13095	3:38:15	81.8	69.1	178.7	76.7	9.07	15.9	
13110	3:38:30	81.5	69.0	178.5	76.7	9.07	16.0	
13125	3:38:45	81.6	69.1	178.6	77.2	9.07	16.0	
13140	3:39:00	81.5	69.1	178.3	76.7	9.07	16.0	
13155	3:39:15	81.2	69.1	178.4	76.2	9.06	16.0	
13170	3:39:30	81.5	69.2	179.0	75.6	9.06	15.8	
13185	3:39:45	81.5	69.3	178.5	75.6	9.06	15.8	
13200	3:40:00	80.9	69.3	179.1	75.6	9.05	15.8	
13215	3:40:15	80.7	69.3	178.4	75.1	9.05	15.9	
13230	3:40:30	80.8	69.3	178.0	75.1	9.04	15.8	
13245	3:40:45	81.1	69.3	178.9	75.1	9.04	15.8	
13260	3:41:00	81.6	69.3	178.4	75.1	9.04	15.8	
13275	3:41:15	81.8	69.3	178.8	75.6	9.05	15.8	
13290	3:41:30	81.5	69.3	178.9	76.2	9.06	15.8	
13305	3:41:45	81.2	69.3	178.9	75.6	9.05	15.8	
13320	3:42:00	82.2	69.2	178.1	75.6	9.05	15.8	
13335	3:42:15	81.8	69.3	178.4	75.6	9.05	15.8	
13350	3:42:30	81.8	69.3	178.8	75.1	9.05	15.9	
13365	3:42:45	81.9	69.3	177.6	75.1	9.05	15.9	
13380	3:43:00	81.7	69.2	178.2	75.1	9.05	15.8	
13395	3:43:15	81.5	69.2	177.7	75.1	9.05	15.8	
13410	3:43:30	81.2	69.3	178.4	74.6	9.05	15.8	
13425	3:43:45	81.0	69.1	178.6	74.6	9.05	15.7	
13440	3:44:00	81.3	69.0	178.2	75.1	9.05	15.7	
13455	3:44:15	81.5	68.9	179.7	75.1	9.05	15.8	
13470	3:44:30	81.7	69.0	178.5	75.1	9.04	15.6	
13485	3:44:45	82.1	68.8	178.8	75.6	9.05	15.7	
13500	3:45:00	82.0	68.8	179.5	76.2	9.06	15.7	
13515	3:45:15	81.6	68.9	178.6	76.2	9.06	15.8	
13530	3:45:30	81.2	68.8	178.5	75.6	9.05	15.9	
13545	3:45:45	81.1	68.9	179.7	75.6	9.05	15.8	
13560	3:46:00	81.3	68.9	178.2	75.6	9.05	15.7	
13575	3:46:15	81.4	69.0	178.6	75.1	9.04	15.7	
13590	3:46:30	81.3	69.1	179.2	75.1	9.04	15.6	
13605	3:46:45	81.2	69.1	178.5	75.1	9.04	15.6	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13620	3:47:00	81.0	68.9	178.9	75.1	9.04	15.6	
13635	3:47:15	81.5	69.0	178.4	75.1	9.04	15.6	
13650	3:47:30	82.2	69.1	178.7	75.1	9.04	15.6	
13665	3:47:45	81.7	69.1	179.1	75.1	9.04	15.6	
13680	3:48:00	82.3	69.0	179.1	75.1	9.04	15.6	
13695	3:48:15	82.4	69.0	178.9	75.6	9.05	15.6	
13710	3:48:30	81.8	69.0	179.3	75.1	9.04	15.7	
13725	3:48:45	81.1	69.1	178.8	75.1	9.04	15.6	
13740	3:49:00	81.4	69.0	178.7	75.1	9.05	15.6	
13755	3:49:15	81.4	68.9	178.6	75.1	9.05	15.6	
13770	3:49:30	82.2	68.8	180.6	75.1	9.05	15.6	
13785	3:49:45	81.4	68.8	179.7	75.1	9.05	15.6	
13800	3:50:00	80.9	68.8	180.4	74.6	9.05	15.5	
13815	3:50:15	81.0	68.9	178.4	74.6	9.05	15.5	
13830	3:50:30	81.3	68.9	180.1	75.1	9.06	15.6	
13845	3:50:45	81.4	69.0	179.3	75.1	9.06	15.6	
13860	3:51:00	82.0	69.1	178.3	75.1	9.05	15.6	
13875	3:51:15	82.2	69.1	178.8	75.1	9.06	15.6	
13890	3:51:30	82.0	69.1	178.5	75.1	9.05	15.5	
13905	3:51:45	81.5	68.9	180.9	75.1	9.05	15.5	
13920	3:52:00	81.0	68.9	180.0	75.1	9.05	15.5	
13935	3:52:15	80.9	68.8	180.5	74.6	9.05	15.5	
13950	3:52:30	81.0	68.8	180.0	74.6	9.05	15.5	
13965	3:52:45	81.0	68.9	179.6	74.0	9.04	15.6	
13980	3:53:00	81.1	68.9	180.2	74.0	9.04	15.6	
13995	3:53:15	80.9	69.0	178.5	74.6	9.05	15.6	
14010	3:53:30	81.5	68.9	179.0	74.0	9.05	15.5	
14025	3:53:45	81.1	68.9	179.4	74.0	9.05	15.5	
14040	3:54:00	80.9	69.0	179.0	74.0	9.05	15.4	
14055	3:54:15	81.5	69.0	179.2	74.0	9.05	15.4	
14070	3:54:30	81.6	69.0	178.8	74.6	9.05	15.4	
14085	3:54:45	81.9	68.9	178.8	74.6	9.04	15.4	
14100	3:55:00	81.6	68.9	178.5	74.6	9.04	15.5	
14115	3:55:15	81.5	68.9	180.4	74.6	9.05	15.5	
14130	3:55:30	81.2	69.0	179.5	74.6	9.04	15.5	
14145	3:55:45	81.0	68.9	178.9	75.1	9.05	15.5	
14160	3:56:00	81.2	69.0	178.9	74.6	9.05	15.4	
14175	3:56:15	81.0	68.9	178.7	74.6	9.05	15.4	
14190	3:56:30	81.3	68.9	178.8	75.1	9.05	15.4	
14205	3:56:45	81.3	68.9	179.0	74.6	9.05	15.4	
14220	3:57:00	81.4	68.9	179.3	74.6	9.05	15.5	
14235	3:57:15	81.7	68.8	179.8	74.6	9.05	15.5	
14250	3:57:30	81.9	68.9	178.8	74.6	9.04	15.6	
14265	3:57:45	82.2	68.8	179.4	75.1	9.04	15.6	
14280	3:58:00	82.3	68.9	179.1	75.6	9.05	15.7	
14295	3:58:15	81.8	68.8	178.8	75.1	9.05	15.7	
14310	3:58:30	81.8	68.8	178.8	75.1	9.05	15.6	
14325	3:58:45	82.2	68.9	178.9	75.6	9.05	15.6	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14340	3:59:00	81.9	68.9	179.2	75.1	9.05	15.7	
14355	3:59:15	81.7	68.9	179.3	74.6	9.04	15.7	
14370	3:59:30	81.5	68.8	179.2	75.1	9.04	15.5	
14385	3:59:45	81.5	68.9	179.8	75.1	9.04	15.7	
14400	4:00:00	81.4	68.9	178.7	75.1	9.05	15.7	
14415	4:00:15	81.5	69.0	179.8	75.1	9.05	15.6	
14430	4:00:30	82.1	68.8	179.9	75.1	9.04	15.7	
14445	4:00:45	82.1	68.9	180.4	74.6	9.04	15.7	
14460	4:01:00	82.2	68.9	180.0	75.1	9.03	15.7	
14475	4:01:15	81.8	68.9	179.5	75.6	9.04	15.6	
14490	4:01:30	81.5	68.8	179.1	75.6	9.05	15.8	
14505	4:01:45	82.3	68.9	178.9	75.1	9.04	15.7	
14520	4:02:00	82.0	68.8	179.3	75.1	9.04	15.7	
14535	4:02:15	82.6	68.9	180.6	75.6	9.04	15.7	
14550	4:02:30	81.6	68.9	179.3	75.1	9.04	15.7	
14565	4:02:45	82.2	68.8	179.4	74.6	9.03	15.7	
14580	4:03:00	82.2	68.9	179.9	75.1	9.04	15.6	
14595	4:03:15	82.1	68.9	178.4	75.1	9.03	15.6	
14610	4:03:30	82.1	68.9	178.6	75.1	9.03	15.6	
14625	4:03:45	82.2	68.8	178.4	75.6	9.04	15.6	
14640	4:04:00	82.2	68.8	180.1	75.1	9.04	15.7	
14655	4:04:15	82.6	68.8	179.7	75.1	9.03	15.8	
14670	4:04:30	82.6	68.7	180.4	75.1	9.04	15.7	
14685	4:04:45	82.0	68.9	179.1	75.6	9.04	15.7	
14700	4:05:00	82.5	68.9	181.0	75.1	9.04	15.7	
14715	4:05:15	82.1	68.9	178.2	75.6	9.05	15.6	
14730	4:05:30	82.5	68.8	179.0	75.6	9.05	15.7	
14745	4:05:45	82.2	68.9	178.3	75.6	9.05	15.7	
14760	4:06:00	82.6	68.9	179.5	75.1	9.05	15.7	
14775	4:06:15	82.3	68.8	179.7	75.1	9.05	15.7	
14790	4:06:30	82.1	68.8	179.2	75.6	9.05	15.7	
14805	4:06:45	82.5	68.8	179.0	76.2	9.05	15.7	
14820	4:07:00	82.1	68.8	179.4	76.2	9.05	15.7	
14835	4:07:15	82.1	68.9	178.2	75.6	9.05	15.7	
14850	4:07:30	82.6	68.9	178.9	75.6	9.05	15.7	
14865	4:07:45	82.6	68.9	179.3	75.6	9.05	15.7	
14880	4:08:00	82.3	68.8	178.4	75.1	9.05	15.7	
14895	4:08:15	82.6	68.7	179.9	75.1	9.05	15.7	
14910	4:08:30	82.7	68.9	178.9	75.6	9.06	15.7	
14925	4:08:45	82.4	68.8	179.1	75.6	9.05	15.7	
14940	4:09:00	82.6	68.7	179.5	75.6	9.05	15.7	
14955	4:09:15	82.3	68.6	180.4	76.2	9.06	15.7	
14970	4:09:30	83.2	68.7	180.0	76.2	9.06	15.7	
14985	4:09:45	82.3	68.7	179.5	75.6	9.05	15.6	
15000	4:10:00	82.4	68.7	179.3	76.2	9.05	15.6	
15015	4:10:15	82.6	68.6	180.3	75.6	9.05	15.6	
15030	4:10:30	83.1	68.7	179.7	75.6	9.04	15.6	
15045	4:10:45	83.8	68.7	179.4	75.6	9.04	15.7	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15060	4:11:00	83.3	68.8	179.1	75.6	9.05	15.7	
15075	4:11:15	82.9	68.8	179.9	75.6	9.05	15.7	
15090	4:11:30	82.7	68.7	179.7	75.6	9.04	15.7	
15105	4:11:45	82.7	68.7	178.0	76.2	9.06	15.7	
15120	4:12:00	82.7	68.7	179.3	75.1	9.04	15.7	
15135	4:12:15	83.0	68.5	180.4	75.1	9.04	15.6	
15150	4:12:30	82.7	68.5	179.0	75.1	9.04	15.6	
15165	4:12:45	83.1	68.5	178.9	75.6	9.05	15.7	
15180	4:13:00	82.4	68.8	178.8	75.6	9.05	15.7	
15195	4:13:15	82.3	68.7	178.2	75.1	9.05	15.6	
15210	4:13:30	82.8	68.6	179.0	75.1	9.04	15.6	
15225	4:13:45	83.1	68.6	178.5	75.1	9.04	15.6	
15240	4:14:00	82.7	68.7	179.7	74.6	9.03	15.6	
15255	4:14:15	82.6	68.8	178.5	74.6	9.02	15.7	
15270	4:14:30	82.8	68.7	179.4	74.6	9.03	15.7	
15285	4:14:45	83.0	68.7	178.7	74.6	9.02	15.6	
15300	4:15:00	82.6	68.6	180.0	74.6	9.03	15.6	
15315	4:15:15	82.7	68.6	179.3	74.6	9.02	15.7	
15330	4:15:30	82.5	68.7	179.6	74.0	9.03	15.5	
15345	4:15:45	83.0	68.7	178.5	74.0	9.03	15.5	
15360	4:16:00	82.8	68.7	178.7	74.6	9.03	15.6	
15375	4:16:15	83.0	68.7	178.3	74.6	9.03	15.6	
15390	4:16:30	82.7	68.7	178.6	74.0	9.02	15.5	
15405	4:16:45	82.3	68.6	178.7	74.0	9.02	15.5	
15420	4:17:00	82.7	68.5	179.7	74.6	9.03	15.5	Start High Fire Equilibrium - #2
15435	4:17:15	82.9	68.7	178.7	74.6	9.04	15.6	
15450	4:17:30	82.6	68.7	179.5	74.6	9.04	15.6	
15465	4:17:45	82.8	68.6	178.4	74.6	9.04	15.6	
15480	4:18:00	82.8	68.7	179.2	74.0	9.03	15.6	
15495	4:18:15	82.8	68.6	179.1	74.0	9.02	15.5	
15510	4:18:30	83.6	68.5	179.0	74.6	9.03	15.5	
15525	4:18:45	83.6	68.5	179.2	74.0	9.03	15.5	
15540	4:19:00	83.2	68.4	179.0	74.6	9.03	15.5	
15555	4:19:15	82.9	68.5	179.6	74.0	9.02	15.5	
15570	4:19:30	83.6	68.5	178.0	74.0	9.01	15.5	
15585	4:19:45	83.5	68.5	179.1	73.5	9.01	15.5	
15600	4:20:00	83.3	68.6	178.1	73.5	9.00	15.4	
15615	4:20:15	82.9	68.6	177.9	73.5	9.00	15.3	
15630	4:20:30	82.8	68.4	178.9	74.0	9.00	15.3	
15645	4:20:45	83.1	68.5	178.2	73.5	9.00	15.4	
15660	4:21:00	82.5	68.4	178.0	73.5	9.00	15.4	
15675	4:21:15	83.0	68.4	179.6	74.0	9.00	15.4	
15690	4:21:30	83.3	68.5	179.7	74.6	9.02	15.5	
15705	4:21:45	83.0	68.1	181.1	75.1	9.02	15.5	
15720	4:22:00	82.8	68.2	181.8	74.0	9.01	15.5	End High Fire Equilibrium - #2
15735	4:22:15	83.0	68.1	181.9	74.0	9.01	15.4	
15750	4:22:30	82.6	68.3	181.7	74.0	9.01	15.5	
15765	4:22:45	82.7	68.4	180.1	74.0	9.01	15.5	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15780	4:23:00	82.9	68.6	179.5	74.0	9.01	15.5	Start Test - High Fire - #2
15795	4:23:15	83.1	68.6	178.7	74.0	9.02	15.4	
15810	4:23:30	83.2	68.6	180.0	73.5	9.01	15.5	
15825	4:23:45	83.6	68.7	180.1	73.5	9.01	15.4	
15840	4:24:00	83.0	68.5	178.8	74.0	9.01	15.5	
15855	4:24:15	83.1	68.6	180.0	73.5	9.01	15.5	
15870	4:24:30	82.9	68.6	179.6	73.5	9.01	15.5	
15885	4:24:45	83.0	68.6	179.8	73.5	9.01	15.4	
15900	4:25:00	83.7	68.5	179.7	74.0	9.01	15.3	
15915	4:25:15	83.7	68.6	178.5	74.6	9.01	15.4	
15930	4:25:30	83.5	68.6	179.6	74.6	9.02	15.5	
15945	4:25:45	83.4	68.5	178.6	75.1	9.02	15.5	
15960	4:26:00	83.5	68.5	178.6	75.1	9.03	15.5	
15975	4:26:15	83.5	68.5	178.5	74.6	9.02	15.5	
15990	4:26:30	83.9	68.6	179.8	74.0	9.01	15.4	
16005	4:26:45	83.0	68.7	177.9	74.0	9.02	15.4	
16020	4:27:00	83.2	68.7	178.4	74.0	9.01	15.3	
16035	4:27:15	83.7	68.7	178.7	73.5	9.01	15.3	
16050	4:27:30	83.6	68.7	178.6	73.6	9.01	15.3	
16065	4:27:45	82.9	68.7	178.5	73.5	9.01	15.3	
16080	4:28:00	83.0	68.7	178.7	73.7	9.02	15.3	
16095	4:28:15	83.4	68.7	178.5	74.0	9.03	15.4	
16110	4:28:30	83.4	68.6	178.5	74.6	9.04	15.4	
16125	4:28:45	83.7	68.5	178.6	74.0	9.03	15.4	
16140	4:29:00	83.6	68.6	178.3	74.6	9.03	15.4	
16155	4:29:15	84.1	68.5	178.8	74.0	9.03	15.4	
16170	4:29:30	83.3	68.5	178.2	74.0	9.02	15.3	
16185	4:29:45	82.9	68.6	178.6	74.0	9.02	15.3	
16200	4:30:00	83.0	68.6	177.7	74.0	9.03	15.3	
16215	4:30:15	83.5	68.6	178.2	74.0	9.03	15.3	
16230	4:30:30	83.2	68.6	178.6	74.0	9.02	15.4	
16245	4:30:45	83.0	68.5	178.2	74.0	9.02	15.4	
16260	4:31:00	83.3	68.5	177.5	74.0	9.03	15.3	
16275	4:31:15	83.6	68.5	178.1	74.0	9.03	15.3	
16290	4:31:30	83.6	68.5	178.4	74.0	9.02	15.4	
16305	4:31:45	83.2	68.6	178.5	74.0	9.02	15.4	
16320	4:32:00	82.8	68.5	178.7	74.6	9.03	15.4	
16335	4:32:15	82.9	68.5	178.5	74.6	9.04	15.5	
16350	4:32:30	83.1	68.5	178.3	74.0	9.03	15.5	
16365	4:32:45	82.8	68.6	178.0	74.0	9.03	15.5	
16380	4:33:00	82.9	68.6	179.7	73.5	9.03	15.4	
16395	4:33:15	83.1	68.6	178.6	74.0	9.04	15.3	
16410	4:33:30	83.5	68.6	178.5	74.0	9.04	15.3	
16425	4:33:45	84.3	68.5	178.4	74.6	9.04	15.4	
16440	4:34:00	83.2	68.5	179.2	74.6	9.04	15.4	
16455	4:34:15	83.1	68.5	179.2	74.0	9.03	15.4	
16470	4:34:30	83.3	68.6	178.8	74.0	9.03	15.6	
16485	4:34:45	82.9	68.6	178.1	73.5	9.03	15.5	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
16500	4:35:00	83.0	68.6	178.0	73.5	9.02	15.3
16515	4:35:15	83.5	68.7	178.1	73.0	9.02	15.2
16530	4:35:30	83.0	68.5	178.5	73.5	9.02	15.2
16545	4:35:45	83.1	68.4	178.6	73.5	9.02	15.3
16560	4:36:00	83.3	68.3	179.1	74.0	9.03	15.3
16575	4:36:15	83.2	68.3	178.6	75.1	9.03	15.3
16590	4:36:30	83.9	68.4	178.9	74.6	9.03	15.5
16605	4:36:45	84.1	68.4	178.2	74.0	9.02	15.4
16620	4:37:00	83.6	68.3	178.0	74.0	9.02	15.3
16635	4:37:15	83.9	68.4	178.3	73.5	9.01	15.3
16650	4:37:30	83.4	68.3	178.6	73.5	9.01	15.2
16665	4:37:45	83.8	68.3	178.1	74.0	9.01	15.3
16680	4:38:00	83.4	68.2	179.8	74.0	9.03	15.3
16695	4:38:15	83.1	68.2	178.1	74.0	9.01	15.3
16710	4:38:30	83.3	68.3	178.6	73.5	9.01	15.3
16725	4:38:45	83.4	68.3	179.5	73.5	9.01	15.3
16740	4:39:00	83.2	68.3	178.9	73.5	9.00	15.4
16755	4:39:15	83.1	68.2	178.6	74.0	9.01	15.4
16770	4:39:30	83.2	68.3	178.6	74.6	9.02	15.4
16785	4:39:45	83.9	68.2	179.2	74.6	9.03	15.3
16800	4:40:00	84.7	68.3	178.6	75.1	9.03	15.4
16815	4:40:15	84.0	68.3	179.6	74.0	9.01	15.5
16830	4:40:30	84.1	68.3	178.0	74.0	9.01	15.2
16845	4:40:45	83.4	68.2	178.3	74.6	9.02	15.3
16860	4:41:00	83.2	68.2	178.2	74.0	9.03	15.3
16875	4:41:15	83.1	68.2	178.7	74.0	9.03	15.4
16890	4:41:30	83.3	68.2	179.9	74.0	9.02	15.3
16905	4:41:45	83.2	68.3	178.4	74.6	9.03	15.4
16920	4:42:00	83.5	68.4	179.9	74.6	9.03	15.4
16935	4:42:15	83.8	68.4	178.4	74.6	9.03	15.4
16950	4:42:30	84.0	68.3	179.0	74.6	9.02	15.4
16965	4:42:45	84.3	68.3	178.1	75.1	9.03	15.4
16980	4:43:00	83.4	68.2	178.8	75.1	9.03	15.5
16995	4:43:15	83.3	68.2	178.2	74.0	9.02	15.4
17010	4:43:30	83.2	68.3	179.5	74.0	9.02	15.3
17025	4:43:45	83.5	68.3	178.0	74.6	9.02	15.3
17040	4:44:00	83.8	68.2	179.3	75.1	9.02	15.5
17055	4:44:15	83.5	68.2	178.2	75.6	9.02	15.5
17070	4:44:30	83.4	68.3	179.7	75.6	9.04	15.5
17085	4:44:45	83.9	68.3	179.1	75.1	9.02	15.6
17100	4:45:00	83.9	68.2	179.3	74.6	9.02	15.5
17115	4:45:15	83.3	68.2	178.3	74.6	9.01	15.3
17130	4:45:30	83.3	68.2	179.3	74.0	9.01	15.4
17145	4:45:45	83.5	68.3	180.0	74.6	9.02	15.4
17160	4:46:00	83.5	68.2	178.6	75.1	9.03	15.4
17175	4:46:15	83.6	68.3	180.2	75.1	9.03	15.5
17190	4:46:30	83.7	68.3	178.6	74.6	9.02	15.5
17205	4:46:45	83.2	68.2	180.1	74.0	9.01	15.4

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17220	4:47:00	83.6	68.2	179.1	73.5	9.00	15.3	
17235	4:47:15	83.3	68.3	179.4	73.5	9.00	15.3	
17250	4:47:30	83.3	68.2	180.0	73.5	9.00	15.3	
17265	4:47:45	83.3	68.3	178.9	73.0	8.99	15.3	
17280	4:48:00	83.5	68.5	178.7	71.9	8.98	15.2	
17295	4:48:15	84.4	68.4	178.3	70.8	8.96	15.1	
17310	4:48:30	83.7	68.2	178.8	70.8	8.96	15.1	
17325	4:48:45	83.3	68.2	178.1	70.3	8.95	15.0	
17340	4:49:00	83.6	68.3	178.1	70.3	8.95	14.9	
17355	4:49:15	83.4	68.2	178.7	70.8	8.96	14.9	
17370	4:49:30	83.9	68.1	178.7	71.4	8.96	14.9	
17385	4:49:45	83.5	68.2	178.8	70.8	8.96	15.0	
17400	4:50:00	83.4	68.2	179.1	70.3	8.95	15.0	Start Emissions
17415	4:50:15	83.6	68.1	178.7	69.8	8.95	14.9	
17430	4:50:30	83.7	68.3	178.9	69.8	8.95	14.9	
17445	4:50:45	84.0	68.2	178.3	69.8	8.95	14.9	
17460	4:51:00	83.9	68.3	179.0	69.8	8.94	14.9	1st Minute
17475	4:51:15	83.6	68.1	178.1	69.8	8.94	14.9	
17490	4:51:30	83.4	68.1	178.7	69.8	8.95	14.8	
17505	4:51:45	83.7	68.2	178.6	69.8	8.95	14.8	
17520	4:52:00	83.5	68.3	178.2	69.8	8.95	14.9	2nd Minute
17535	4:52:15	83.9	68.1	178.5	69.2	8.93	14.8	
17550	4:52:30	83.9	68.2	178.2	69.2	8.93	14.8	
17565	4:52:45	83.8	68.0	178.1	69.2	8.95	14.8	
17580	4:53:00	84.1	68.1	178.2	69.2	8.93	14.8	3rd Minute / EOT - High Fire - #2
17595	4:53:15	83.7	68.0	179.6	69.2	8.93	14.8	
17610	4:53:30	83.5	68.0	178.9	70.3	8.95	14.8	CO2 (Avg) % = 8.94
17625	4:53:45	83.7	68.1	178.7	70.3	8.95	14.9	NOx (Avg) ppm = 14.8
17640	4:54:00	83.5	68.0	179.7	69.8	8.94	14.9	CO (Max) ppm = 75.6
17655	4:54:15	83.5	68.1	178.4	69.8	8.94	14.8	Ambient (Avg) F = 83.5
17670	4:54:30	83.8	68.1	178.5	69.2	8.93	14.9	T_In (Avg) F = 68.4
17685	4:54:45	84.3	68.1	178.0	69.8	8.94	14.9	T_Del (Avg) F = 178.7
17700	4:55:00	83.8	68.1	178.2	70.8	8.95	14.9	
17715	4:55:15	83.7	68.0	178.1	70.3	8.95	15.0	
17730	4:55:30	83.8	68.0	178.2	70.3	8.95	14.8	
17745	4:55:45	83.8	68.1	178.4	70.3	8.96	14.8	
17760	4:56:00	83.9	67.9	178.5	70.3	8.96	14.9	
17775	4:56:15	83.6	68.0	178.0	70.3	8.96	15.0	
17790	4:56:30	83.7	68.0	178.9	69.8	8.95	14.8	
17805	4:56:45	83.6	68.0	178.6	69.2	8.93	14.8	
17820	4:57:00	83.7	68.1	178.9	69.2	8.93	14.8	
17835	4:57:15	83.7	68.1	178.1	69.2	8.92	14.9	
17850	4:57:30	83.6	68.0	178.3	68.7	8.92	14.9	
17865	4:57:45	84.0	67.9	178.1	68.7	8.92	14.9	
17880	4:58:00	84.0	68.0	178.1	69.8	8.93	15.0	
17895	4:58:15	83.9	68.1	178.1	69.2	8.93	15.1	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17910	4:58:30	83.6	67.9	178.6	69.8	8.92	14.8	
17925	4:58:45	83.8	67.9	177.5	70.8	8.93	14.9	
17940	4:59:00	83.4	67.9	176.0	70.8	8.95	15.0	
17955	4:59:15	83.4	67.9	160.4	50.1	8.94	15.0	
17970	4:59:30	83.6	67.9	150.2	42.6	8.92	15.0	
17985	4:59:45	84.0	67.8	149.1	41.0	8.91	15.1	
18000	5:00:00	83.4	67.3	153.7	40.5	8.91	15.2	
18015	5:00:15	83.3	66.0	162.9	40.0	8.91	15.1	
18030	5:00:30	83.3	66.0	168.0	39.4	8.90	14.9	
18045	5:00:45	83.7	67.4	170.7	37.8	8.87	14.8	
18060	5:01:00	83.4	68.3	172.0	37.8	8.87	14.6	
18075	5:01:15	83.8	68.8	172.1	37.3	8.87	14.4	
18090	5:01:30	83.8	68.8	172.5	37.3	8.87	14.5	
18105	5:01:45	84.0	68.9	171.2	36.8	8.87	14.4	
18120	5:02:00	83.7	69.0	171.4	37.3	8.87	14.4	
18135	5:02:15	83.7	69.0	171.1	37.3	8.88	14.4	
18150	5:02:30	83.7	69.1	171.9	36.8	8.87	14.5	
18165	5:02:45	84.0	69.2	173.1	36.8	8.87	14.5	
18180	5:03:00	83.6	69.2	175.0	36.8	8.87	14.5	
18195	5:03:15	83.7	68.9	174.7	36.8	8.87	14.5	
18210	5:03:30	83.6	68.9	176.0	36.8	8.88	14.5	
18225	5:03:45	83.5	69.0	176.7	36.8	8.88	14.5	
18240	5:04:00	84.3	69.0	176.6	36.8	8.87	14.4	
18255	5:04:15	84.0	68.9	176.4	36.8	8.87	14.4	
18270	5:04:30	84.1	68.9	176.9	37.8	8.88	14.5	
18285	5:04:45	83.6	68.8	178.6	37.8	8.89	14.6	
18300	5:05:00	83.7	68.8	176.5	37.8	8.89	14.6	
18315	5:05:15	84.0	68.8	177.5	37.3	8.88	14.6	
18330	5:05:30	84.1	68.9	176.5	37.3	8.87	14.5	
18345	5:05:45	84.1	69.1	178.4	36.8	8.87	14.5	
18360	5:06:00	84.0	69.2	176.6	36.8	8.88	14.5	
18375	5:06:15	83.7	69.3	177.7	36.8	8.88	14.5	
18390	5:06:30	83.8	69.4	178.1	36.8	8.87	14.4	
18405	5:06:45	84.0	69.4	178.6	37.3	8.88	14.4	
18420	5:07:00	84.0	69.4	179.1	36.8	8.88	14.4	
18435	5:07:15	84.1	69.5	177.1	36.8	8.87	14.5	
18450	5:07:30	84.0	69.5	178.1	36.8	8.88	14.5	
18465	5:07:45	83.8	69.5	177.1	36.8	8.87	14.5	
18480	5:08:00	84.0	69.6	177.4	36.8	8.87	14.5	
18495	5:08:15	83.9	69.6	178.6	36.8	8.88	14.5	
18510	5:08:30	84.1	69.6	177.7	36.8	8.88	14.5	
18525	5:08:45	84.5	69.6	178.4	36.8	8.87	14.5	
18540	5:09:00	85.3	69.6	177.9	36.8	8.87	14.5	
18555	5:09:15	84.7	69.7	177.5	36.8	8.87	14.5	
18570	5:09:30	84.8	69.6	178.0	36.8	8.87	14.4	
18585	5:09:45	84.2	69.6	179.3	36.8	8.87	14.5	
18600	5:10:00	84.1	69.6	177.3	36.8	8.87	14.5	
18615	5:10:15	84.8	69.7	177.9	36.8	8.87	14.4	

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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
18630	5:10:30	84.3	69.7	179.5	37.3	8.88	14.4	Start Mid Fire Equilibrium - #2
18645	5:10:45	84.5	69.7	179.0	37.3	8.88	14.5	
18660	5:11:00	84.7	69.7	178.8	37.3	8.88	14.5	
18675	5:11:15	84.3	69.8	178.6	37.3	8.87	14.4	
18690	5:11:30	84.2	69.8	179.0	37.3	8.88	14.4	
18705	5:11:45	84.3	69.8	178.5	37.8	8.88	14.4	
18720	5:12:00	84.6	69.8	178.9	38.4	8.89	14.5	
18735	5:12:15	83.8	69.8	179.4	37.8	8.89	14.6	
18750	5:12:30	84.1	69.8	180.1	37.8	8.89	14.5	
18765	5:12:45	84.6	69.7	178.8	37.8	8.89	14.5	
18780	5:13:00	84.8	69.7	179.5	38.4	8.91	14.6	
18795	5:13:15	84.5	69.7	179.1	38.4	8.91	14.7	
18810	5:13:30	84.8	69.7	178.8	37.8	8.90	14.7	
18825	5:13:45	84.9	69.8	178.1	37.8	8.89	14.6	
18840	5:14:00	84.6	69.7	178.7	37.8	8.89	14.6	
18855	5:14:15	84.4	69.7	178.7	37.8	8.89	14.6	
18870	5:14:30	84.3	69.8	179.2	37.8	8.90	14.7	
18885	5:14:45	84.2	69.8	178.7	37.3	8.89	14.7	
18900	5:15:00	84.0	69.9	179.7	37.3	8.88	14.7	
18915	5:15:15	84.6	69.9	179.7	37.3	8.88	14.7	
18930	5:15:30	84.3	69.9	179.6	37.3	8.88	14.5	End Mid Fire Equilibrium - #2
18945	5:15:45	83.9	69.9	178.8	37.3	8.88	14.5	
18960	5:16:00	84.2	69.9	180.5	37.3	8.89	14.6	
18975	5:16:15	84.2	70.0	178.5	36.8	8.88	14.7	
18990	5:16:30	84.4	70.0	179.3	36.8	8.87	14.5	
19005	5:16:45	84.6	70.1	180.9	37.3	8.88	14.5	Start Test - Mid Fire - #2
19020	5:17:00	84.3	70.2	179.0	37.3	8.88	14.6	
19035	5:17:15	84.1	70.1	179.1	37.3	8.89	14.6	
19050	5:17:30	84.1	70.1	179.9	37.3	8.88	14.7	
19065	5:17:45	83.9	70.1	179.8	36.8	8.87	14.6	
19080	5:18:00	84.0	70.1	179.0	36.8	8.87	14.6	
19095	5:18:15	84.6	70.1	179.8	36.8	8.86	14.6	
19110	5:18:30	84.8	70.1	178.9	36.8	8.86	14.5	
19125	5:18:45	84.4	70.1	180.8	36.8	8.87	14.4	
19140	5:19:00	84.4	70.1	179.7	36.8	8.88	14.5	
19155	5:19:15	84.6	70.1	179.9	36.8	8.88	14.6	
19170	5:19:30	84.9	70.1	180.0	36.8	8.88	14.6	
19185	5:19:45	84.4	70.1	179.7	36.2	8.87	14.5	
19200	5:20:00	84.2	70.2	179.5	36.2	8.87	14.5	
19215	5:20:15	84.5	70.1	180.8	36.2	8.89	14.5	
19230	5:20:30	84.6	70.1	178.8	35.7	8.87	14.6	
19245	5:20:45	84.4	70.2	179.0	36.2	8.88	14.5	
19260	5:21:00	84.1	70.2	180.5	36.8	8.91	14.5	
19275	5:21:15	84.3	70.2	179.1	36.8	8.90	14.6	
19290	5:21:30	84.2	70.2	179.3	36.2	8.87	14.5	
19305	5:21:45	84.7	70.3	180.8	35.7	8.87	14.5	
19320	5:22:00	84.4	70.2	179.9	35.7	8.85	14.4	
19335	5:22:15	84.1	70.2	179.0	36.2	8.87	14.4	

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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
19350	5:22:30	84.1	70.3	180.9	36.2	8.88	14.6
19365	5:22:45	84.2	70.4	179.9	36.2	8.87	14.5
19380	5:23:00	84.1	70.5	179.4	35.7	8.87	14.5
19395	5:23:15	84.5	70.4	180.4	36.2	8.87	14.5
19410	5:23:30	84.9	70.4	180.8	36.2	8.87	14.5
19425	5:23:45	84.8	70.3	180.0	36.2	8.88	14.5
19440	5:24:00	84.7	70.4	179.6	36.8	8.88	14.5
19455	5:24:15	84.4	70.4	180.4	36.8	8.89	14.5
19470	5:24:30	84.6	70.4	180.1	36.8	8.88	14.5
19485	5:24:45	84.5	70.4	180.8	36.8	8.89	14.5
19500	5:25:00	84.6	70.4	179.3	36.8	8.88	14.5
19515	5:25:15	84.7	70.4	179.3	36.8	8.89	14.5
19530	5:25:30	84.5	70.4	180.1	36.8	8.87	14.7
19545	5:25:45	84.3	70.5	179.8	36.8	8.88	14.7
19560	5:26:00	84.6	70.5	181.0	36.8	8.88	14.7
19575	5:26:15	84.5	70.4	181.4	36.2	8.88	14.7
19590	5:26:30	84.8	70.4	179.8	36.2	8.87	14.6
19605	5:26:45	84.3	70.4	179.9	36.2	8.88	14.7
19620	5:27:00	84.4	70.5	179.9	36.2	8.88	14.7
19635	5:27:15	84.4	70.4	179.6	36.2	8.88	14.6
19650	5:27:30	85.0	70.4	180.5	36.2	8.87	14.7
19665	5:27:45	85.2	70.4	180.2	35.7	8.88	14.6
19680	5:28:00	84.6	70.4	179.6	36.2	8.88	14.6
19695	5:28:15	84.6	70.4	180.2	36.2	8.88	14.6
19710	5:28:30	84.9	70.5	180.1	36.8	8.89	14.5
19725	5:28:45	85.2	70.5	180.6	36.8	8.89	14.6
19740	5:29:00	85.0	70.5	180.8	36.8	8.88	14.6
19755	5:29:15	85.1	70.5	180.0	36.2	8.88	14.6
19770	5:29:30	84.9	70.6	179.3	36.2	8.87	14.5
19785	5:29:45	84.5	70.6	179.8	36.2	8.87	14.5
19800	5:30:00	85.5	70.6	179.4	36.8	8.87	14.5
19815	5:30:15	84.7	70.5	179.2	36.8	8.88	14.5
19830	5:30:30	84.4	70.6	180.1	36.8	8.87	14.5
19845	5:30:45	84.5	70.4	180.7	36.2	8.87	14.4
19860	5:31:00	84.6	70.6	180.2	36.8	8.87	14.4
19875	5:31:15	84.4	70.6	179.5	36.8	8.87	14.4
19890	5:31:30	84.3	70.6	179.8	36.8	8.87	14.5
19905	5:31:45	84.2	70.6	179.9	36.2	8.86	14.4
19920	5:32:00	84.4	70.7	179.6	36.8	8.88	14.5
19935	5:32:15	84.1	70.6	179.9	36.8	8.86	14.5
19950	5:32:30	84.3	70.7	180.3	36.2	8.87	14.3
19965	5:32:45	85.0	70.7	179.2	36.8	8.87	14.3
19980	5:33:00	84.5	70.6	180.7	36.2	8.87	14.3
19995	5:33:15	84.8	70.7	179.3	36.2	8.87	14.3
20010	5:33:30	84.9	70.6	179.1	36.2	8.87	14.4
20025	5:33:45	85.1	70.6	180.0	36.2	8.87	14.4
20040	5:34:00	85.0	70.5	179.1	36.2	8.87	14.4
20055	5:34:15	84.6	70.5	181.0	36.8	8.88	14.3

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20070	5:34:30	84.4	70.5	179.3	36.8	8.88	14.5	
20085	5:34:45	84.6	70.4	180.0	36.8	8.88	14.5	
20100	5:35:00	84.6	70.4	180.1	36.2	8.87	14.4	
20115	5:35:15	84.7	70.4	180.3	36.2	8.87	14.3	
20130	5:35:30	84.9	70.5	180.0	36.2	8.88	14.4	
20145	5:35:45	84.6	70.5	179.6	36.8	8.89	14.4	
20160	5:36:00	84.5	70.5	181.2	36.8	8.89	14.5	
20175	5:36:15	84.9	70.5	179.6	36.2	8.88	14.6	
20190	5:36:30	85.1	70.5	181.5	36.2	8.88	14.3	
20205	5:36:45	85.0	70.5	179.9	36.2	8.88	14.4	
20220	5:37:00	85.1	70.5	179.6	36.2	8.88	14.4	
20235	5:37:15	84.9	70.6	180.0	36.2	8.88	14.3	
20250	5:37:30	85.7	70.5	180.6	36.2	8.88	14.3	
20265	5:37:45	85.4	70.3	180.1	36.2	8.88	14.3	
20280	5:38:00	84.9	70.3	182.3	36.2	8.88	14.4	
20295	5:38:15	85.3	70.3	181.1	36.2	8.88	14.4	
20310	5:38:30	85.2	70.4	179.9	36.2	8.90	14.5	
20325	5:38:45	85.2	70.3	181.2	36.2	8.89	14.5	
20340	5:39:00	84.8	70.2	181.0	36.2	8.89	14.4	
20355	5:39:15	84.9	70.1	180.0	36.2	8.88	14.4	
20370	5:39:30	85.0	70.2	180.2	35.7	8.87	14.3	
20385	5:39:45	85.1	70.1	180.2	35.7	8.87	14.3	
20400	5:40:00	85.0	70.1	179.9	35.7	8.87	14.3	
20415	5:40:15	85.2	70.1	179.9	35.7	8.87	14.4	
20430	5:40:30	85.1	69.9	180.3	35.7	8.87	14.3	
20445	5:40:45	85.4	70.1	179.3	35.7	8.88	14.3	
20460	5:41:00	85.5	70.1	179.5	35.7	8.88	14.4	
20475	5:41:15	85.3	70.0	179.8	36.2	8.89	14.4	
20490	5:41:30	85.5	70.0	179.6	36.2	8.89	14.5	
20505	5:41:45	85.5	70.0	179.6	35.7	8.88	14.4	
20520	5:42:00	84.8	70.0	179.9	35.7	8.87	14.4	
20535	5:42:15	84.8	70.1	179.8	35.7	8.88	14.4	
20550	5:42:30	84.9	70.2	179.6	35.7	8.88	14.5	
20565	5:42:45	85.3	70.1	179.8	35.7	8.88	14.5	
20580	5:43:00	84.7	70.1	179.3	35.7	8.88	14.5	
20595	5:43:15	85.0	70.0	180.6	35.7	8.88	14.5	
20610	5:43:30	85.4	70.3	181.8	35.7	8.89	14.5	
20625	5:43:45	85.3	70.1	180.8	35.7	8.89	14.5	
20640	5:44:00	85.0	69.8	179.5	35.2	8.89	14.4	Start Emissions
20655	5:44:15	84.6	69.9	179.9	35.2	8.88	14.4	
20670	5:44:30	84.6	70.2	180.9	35.2	8.88	14.4	
20685	5:44:45	85.1	70.2	179.0	35.7	8.89	14.4	
20700	5:45:00	84.8	70.3	179.1	35.7	8.90	14.4	1st Minute
20715	5:45:15	84.9	70.3	179.1	35.7	8.89	14.5	
20730	5:45:30	84.8	70.3	179.7	35.2	8.89	14.5	
20745	5:45:45	84.7	70.4	179.6	35.2	8.88	14.5	
20760	5:46:00	84.6	70.3	179.5	35.2	8.88	14.4	2nd Minute

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20775	5:46:15	84.6	70.4	179.6	35.7	8.89	14.4	
20790	5:46:30	84.9	70.4	180.5	35.2	8.88	14.6	
20805	5:46:45	84.6	70.5	179.6	35.2	8.88	14.5	
20820	5:47:00	84.9	70.5	180.9	34.6	8.87	14.4	3rd Minute / EOT - Mid Fire - #2
20835	5:47:15	84.5	70.4	180.3	34.6	8.87	14.4	
20850	5:47:30	84.8	70.5	179.6	35.2	8.88	14.4	CO2 (Avg) % = 8.88
20865	5:47:45	84.8	70.5	180.8	35.2	8.88	14.5	NOx (Avg) ppm = 14.5
20880	5:48:00	85.1	70.5	179.3	35.2	8.87	14.5	CO (Max) ppm = 37.3
20895	5:48:15	85.2	70.5	180.3	34.6	8.87	14.4	Ambient (Avg) F = 84.7
20910	5:48:30	85.3	70.5	180.3	34.6	8.87	14.4	T_In (Avg) F = 70.3
20925	5:48:45	85.9	70.4	181.3	34.6	8.88	14.4	T_Del (Avg) F = 180.0
20940	5:49:00	85.1	70.4	181.3	34.6	8.87	14.4	
20955	5:49:15	85.1	70.5	179.9	34.6	8.88	14.4	
20970	5:49:30	85.7	70.5	180.7	34.6	8.88	14.5	
20985	5:49:45	85.6	70.6	180.6	34.6	8.88	14.5	
21000	5:50:00	85.6	70.6	179.5	34.6	8.87	14.4	
21015	5:50:15	86.0	70.5	181.0	35.2	8.88	14.3	
21030	5:50:30	85.3	70.4	180.7	35.2	8.88	14.5	
21045	5:50:45	85.5	70.4	181.0	35.2	8.89	14.5	
21060	5:51:00	85.0	70.4	181.1	35.2	8.89	14.5	
21075	5:51:15	85.0	70.3	179.7	35.7	8.88	14.4	
21090	5:51:30	85.2	70.3	179.9	35.7	8.89	14.5	
21105	5:51:45	84.9	70.3	180.5	35.7	8.89	14.5	
21120	5:52:00	85.1	70.3	179.9	35.7	8.89	14.5	
21135	5:52:15	85.3	70.3	169.7	31.4	7.16	14.5	
21150	5:52:30	85.0	70.4	141.0	0.0	0.44	12.4	
21165	5:52:45	84.9	70.3	113.4	0.0	0.26	7.2	
21180	5:53:00	85.1	69.0	100.7	0.0	0.12	1.5	
21195	5:53:15	84.9	66.7	92.0	0.0	0.01	1.0	
21210	5:53:30	85.3	64.5	81.4	0.0	0.00	0.2	
21225	5:53:45	85.4	63.6	76.8	0.0	0.00	0.1	
21240	5:54:00	85.5	63.0	74.4	0.0	0.00	0.1	Start Zero OUT
21255	5:54:15	85.4	62.8	72.3	0.0	0.00	0.1	
21270	5:54:30	85.1	62.6	70.2	0.0	0.00	0.1	
21285	5:54:45	85.2	62.6	68.4	0.0	0.00	0.1	
21300	5:55:00	85.2	62.5	66.8	0.0	0.00	0.1	
21315	5:55:15	84.7	62.4	65.8	0.0	0.00	0.1	
21330	5:55:30	84.8	62.4	65.1	0.0	0.00	0.1	
21345	5:55:45	84.9	62.4	64.8	0.0	0.00	0.1	
21360	5:56:00	84.4	62.2	64.5	0.0	0.00	0.1	
21375	5:56:15	84.7	62.2	64.3	0.0	0.00	0.1	
21390	5:56:30	85.1	62.1	64.2	0.0	0.00	0.1	
21405	5:56:45	85.1	62.1	64.0	0.0	0.00	0.1	
21420	5:57:00	84.8	62.0	63.8	0.0	0.00	0.0	
21435	5:57:15	84.9	62.0	63.8	0.0	0.00	0.0	
21450	5:57:30	84.8	61.9	63.7	0.0	0.00	0.0	
21465	5:57:45	84.6	61.9	63.7	0.0	0.00	0.0	

Manufacturer: RIELLO
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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
21480	5:58:00	84.8	61.9	63.6	0.0	0.00	0.0	
21495	5:58:15	84.9	61.8	63.5	0.0	0.00	0.0	
21510	5:58:30	84.9	61.8	63.4	0.0	0.00	0.0	
21525	5:58:45	85.0	61.8	63.3	0.0	0.00	0.0	
21540	5:59:00	85.1	61.7	63.2	0.0	0.00	0.0	Analyzer Zero OUT
21555	5:59:15	85.0	61.6	63.2	0.0	0.00	0.0	
21570	5:59:30	84.9	61.6	63.1	701.6	6.92	0.0	
21585	5:59:45	84.7	61.6	63.1	941.0	9.32	13.9	
21600	6:00:00	85.1	61.6	63.4	957.6	9.45	27.5	
21615	6:00:15	85.0	61.6	63.6	962.9	9.48	27.3	
21630	6:00:30	85.3	61.7	63.9	964.5	9.49	26.5	
21645	6:00:45	85.0	61.8	64.2	965.0	9.49	26.3	
21660	6:01:00	85.2	62.0	64.4	965.6	9.50	26.1	
21675	6:01:15	85.0	62.2	64.7	965.6	9.49	26.1	
21690	6:01:30	85.2	62.4	65.0	965.6	9.50	26.0	
21705	6:01:45	85.7	62.6	65.3	966.1	9.50	26.0	
21720	6:02:00	86.1	62.9	65.6	965.6	9.50	26.1	Start High Span OUT
21735	6:02:15	85.8	63.2	65.9	965.6	9.50	26.2	
21750	6:02:30	85.7	63.4	66.2	966.1	9.50	26.2	
21765	6:02:45	85.6	63.5	66.5	966.1	9.50	26.2	
21780	6:03:00	86.8	63.7	66.7	966.1	9.50	26.3	
21795	6:03:15	87.1	63.9	67.0	966.1	9.50	26.3	
21810	6:03:30	86.2	64.4	67.6	966.1	9.50	26.2	
21825	6:03:45	85.3	64.1	67.5	966.1	9.50	26.2	
21840	6:04:00	85.1	64.3	67.8	966.1	9.50	26.2	
21855	6:04:15	85.1	64.5	68.1	966.1	9.50	26.3	
21870	6:04:30	85.1	64.7	68.3	965.6	9.50	26.2	
21885	6:04:45	85.3	64.9	68.6	966.1	9.50	26.2	
21900	6:05:00	85.6	65.0	68.9	966.1	9.50	26.2	
21915	6:05:15	85.7	65.2	69.1	966.1	9.50	26.2	
21930	6:05:30	29.8	65.2	69.3	966.1	9.50	26.2	
21945	6:05:45	31.9	65.5	69.5	966.1	9.50	26.3	
21960	6:06:00	31.4	65.6	69.8	966.1	9.50	26.3	
21975	6:06:15	69.5	65.7	70.0	966.1	9.50	26.3	
21990	6:06:30	86.5	66.0	70.3	966.1	9.50	26.4	
22005	6:06:45	85.5	66.2	70.5	966.1	9.50	26.4	
22020	6:07:00	85.3	66.3	70.8	966.6	9.51	26.4	Analyzer High Span OUT
22035	6:07:15	85.1	66.5	71.0	966.1	9.51	26.4	
22050	6:07:30	85.8	66.6	71.3	676.2	6.82	26.0	
22065	6:07:45	72.8	66.9	71.5	511.5	5.09	20.7	
22080	6:08:00	78.1	67.0	71.7	498.9	5.01	15.3	
22095	6:08:15	85.0	67.2	71.9	496.1	5.01	15.1	
22110	6:08:30	85.1	67.3	72.1	495.0	5.01	15.0	
22125	6:08:45	73.6	67.4	72.3	495.0	5.00	15.0	
22140	6:09:00	84.3	67.6	72.6	495.0	5.00	14.7	
22155	6:09:15	80.8	67.7	72.8	495.0	5.00	14.4	
22170	6:09:30	79.3	67.9	73.0	495.0	5.00	14.4	
22185	6:09:45	82.8	68.0	73.1	495.0	5.00	14.4	

Manufacturer: RIELLO
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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22200	6:10:00	82.4	68.2	73.4	495.0	5.01	14.4	Start Mid Span OUT
22215	6:10:15	79.5	68.4	73.6	495.0	5.01	14.3	
22230	6:10:30	75.7	68.6	73.7	495.0	5.01	14.4	
22245	6:10:45	78.4	68.6	73.9	495.0	5.00	14.3	
22260	6:11:00	78.6	68.6	74.0	495.0	5.01	14.3	
22275	6:11:15	80.5	68.8	74.2	495.0	5.00	14.3	
22290	6:11:30	81.4	68.9	74.4	495.0	5.00	14.3	
22305	6:11:45	79.4	69.0	74.5	495.0	5.00	14.3	
22320	6:12:00	79.3	69.2	74.7	494.5	5.00	14.3	
22335	6:12:15	82.5	69.3	74.8	495.0	5.00	14.3	
22350	6:12:30	84.0	69.5	75.0	495.0	5.00	14.3	
22365	6:12:45	83.3	69.6	75.2	494.5	5.00	14.3	
22380	6:13:00	82.2	69.8	75.3	494.5	5.00	14.3	
22395	6:13:15	78.7	70.0	75.6	495.0	5.01	14.3	
22410	6:13:30	80.5	70.0	75.7	495.0	5.00	14.3	
22425	6:13:45	79.0	70.1	75.8	494.5	5.00	14.3	
22440	6:14:00	83.6	70.2	75.9	494.5	5.00	14.3	
22455	6:14:15	89.2	70.4	76.1	494.5	5.00	14.3	
22470	6:14:30	86.6	70.4	76.1	494.5	5.00	14.3	
22485	6:14:45	86.5	70.5	76.2	494.5	5.00	14.3	
22500	6:15:00	86.2	70.6	76.4	494.5	5.00	14.3	Analyzer Mid Span OUT
22515	6:15:15	85.8	70.8	76.5	494.5	5.00	14.3	
22530	6:15:30	85.9	70.8	76.6	494.5	5.00	14.2	
22545	6:15:45	31.3	70.9	76.7	449.6	4.99	12.8	
22560	6:16:00	32.1	71.0	76.8	261.9	2.66	9.4	
22575	6:16:15	31.7	71.1	76.9	241.1	2.58	7.3	
22590	6:16:30	31.7	71.3	77.0	237.4	2.57	6.4	
22605	6:16:45	31.8	71.4	77.1	236.3	2.57	6.5	
22620	6:17:00	32.1	71.5	77.2	236.3	2.57	6.7	
22635	6:17:15	34.1	71.5	77.3	236.8	2.57	6.7	
22650	6:17:30	36.0	71.6	77.4	236.8	2.57	6.7	Start Low Span OUT
22665	6:17:45	32.3	71.7	77.5	236.8	2.57	6.7	
22680	6:18:00	31.8	71.8	77.6	236.8	2.57	6.7	
22695	6:18:15	43.9	72.0	77.8	236.8	2.57	6.7	
22710	6:18:30	22.2	72.2	78.0	236.8	2.57	6.7	
22725	6:18:45	31.8	72.3	78.2	236.8	2.57	6.7	
22740	6:19:00	-113.9	72.4	78.2	236.8	2.57	6.7	
22755	6:19:15	33.8	72.4	78.2	236.8	2.57	6.7	
22770	6:19:30	-1768.0	72.7	78.4	236.8	2.57	6.7	
22785	6:19:45	29.1	72.6	78.4	236.8	2.58	6.7	
22800	6:20:00	29.0	72.7	78.5	236.8	2.58	6.7	
22815	6:20:15	-85.8	72.7	78.5	236.8	2.58	6.7	
22830	6:20:30	86.6	72.7	78.6	236.8	2.58	6.7	
22845	6:20:45	88.1	73.0	78.7	236.8	2.58	6.7	
22860	6:21:00	86.4	73.0	78.8	237.4	2.58	6.7	
22875	6:21:15	87.0	73.2	78.9	236.8	2.58	6.7	
22890	6:21:30	86.7	73.3	79.0	236.8	2.58	6.7	
22905	6:21:45	87.8	73.4	79.1	236.8	2.58	6.7	

Manufacturer: RIELLO
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Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22920	6:22:00	88.9	73.5	79.2	236.8	2.58	6.7	
22935	6:22:15	88.7	73.6	79.3	236.8	2.58	6.7	
22950	6:22:30	87.8	73.7	79.4	236.8	2.57	6.7	
22965	6:22:45	86.8	73.8	79.5	236.8	2.57	6.7	
22980	6:23:00	86.5	73.9	79.6	236.8	2.57	6.7	Analyzer Low Span OUT
22995	6:23:15	86.6	74.0	79.7	236.8	2.57	6.7	
23010	6:23:30	86.4	74.1	79.7	236.8	2.57	6.7	
23025	6:23:45	85.9	74.2	79.8	92.7	1.31	6.7	
23040	6:24:00	85.7	74.3	79.9	3.2	0.10	3.9	
23055	6:24:15	85.8	74.4	80.0	0.0	0.04	1.1	
23070	6:24:30	85.9	74.4	80.0	0.0	0.01	0.9	
23085	6:24:45	86.4	74.5	80.1	0.0	0.00	0.9	
23100	6:25:00	86.3	74.6	80.2	0.0	0.00	0.8	
23115	6:25:15	86.3	74.7	80.2	0.0	0.00	0.8	
23130	6:25:30	86.1	74.8	80.3	0.0	0.00	0.8	
23145	6:25:45	86.5	74.9	80.4	0.0	0.00	0.7	
23160	6:26:00	86.1	75.0	80.5	0.0	0.00	0.7	Start Zero Bias OUT
23175	6:26:15	85.7	75.1	80.5	0.0	0.00	0.6	
23190	6:26:30	86.2	75.2	80.6	0.0	0.00	0.6	
23205	6:26:45	86.2	75.3	80.7	0.0	0.00	0.6	
23220	6:27:00	85.7	75.3	80.7	0.0	0.00	0.5	
23235	6:27:15	85.8	75.4	80.8	0.0	0.00	0.5	
23250	6:27:30	85.7	75.5	80.9	0.0	0.00	0.5	
23265	6:27:45	85.8	75.6	80.9	0.0	0.00	0.5	
23280	6:28:00	85.5	75.7	81.0	0.0	0.00	0.4	
23295	6:28:15	85.6	75.8	81.1	0.0	0.00	0.4	
23310	6:28:30	85.8	75.9	81.2	0.0	0.00	0.4	
23325	6:28:45	86.1	75.9	81.2	0.0	0.00	0.4	
23340	6:29:00	86.0	76.0	81.2	0.0	0.00	0.3	
23355	6:29:15	86.0	76.0	81.3	0.0	0.00	0.3	
23370	6:29:30	85.7	76.0	81.3	0.0	0.00	0.3	
23385	6:29:45	86.2	76.2	81.4	0.0	0.00	0.3	
23400	6:30:00	86.2	76.2	81.4	0.0	0.00	0.3	
23415	6:30:15	86.1	76.3	81.5	0.0	0.00	0.3	
23430	6:30:30	86.3	76.3	81.5	0.0	0.00	0.3	
23445	6:30:45	85.7	76.3	81.5	0.0	0.00	0.3	
23460	6:31:00	85.5	76.4	81.6	0.0	0.00	0.2	System Zero OUT
23475	6:31:15	85.9	76.5	81.6	0.0	0.00	0.2	
23490	6:31:30	85.7	76.5	81.7	0.0	0.00	0.2	
23505	6:31:45	85.3	76.6	81.7	0.0	0.03	0.2	
23520	6:32:00	85.4	76.7	81.7	180.8	1.31	0.2	
23535	6:32:15	85.6	76.8	81.8	446.5	4.79	0.2	
23550	6:32:30	86.8	77.0	81.9	475.9	4.93	0.2	
23565	6:32:45	87.0	77.1	82.0	481.7	4.96	0.2	
23580	6:33:00	86.1	77.2	82.1	483.9	4.97	0.2	
23595	6:33:15	86.7	77.2	82.1	484.4	4.98	0.2	
23610	6:33:30	86.2	77.3	82.1	484.9	4.98	0.2	
23625	6:33:45	86.1	77.3	82.1	484.9	4.99	0.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
23640	6:34:00	86.4	77.4	82.2	485.5	4.99	0.2	Start Mid CO/CO2 Bias OUT
23655	6:34:15	86.2	77.3	82.1	485.5	4.99	0.2	
23670	6:34:30	86.2	77.4	82.2	484.9	4.99	0.2	
23685	6:34:45	86.0	77.4	82.2	484.9	4.99	0.2	
23700	6:35:00	86.5	77.5	82.2	485.4	4.99	0.2	
23715	6:35:15	86.5	77.5	82.2	484.9	4.99	0.2	
23730	6:35:30	85.7	77.6	82.3	485.4	4.99	0.2	
23745	6:35:45	85.7	77.7	82.4	485.4	4.99	0.1	
23760	6:36:00	86.7	77.7	82.4	484.9	4.99	0.1	
23775	6:36:15	86.2	77.8	82.4	484.9	4.99	0.1	
23790	6:36:30	85.7	77.8	82.5	485.4	4.99	0.1	
23805	6:36:45	85.3	77.9	82.5	485.4	4.99	0.1	
23820	6:37:00	85.1	78.0	82.6	484.9	4.99	0.1	
23835	6:37:15	84.9	78.1	82.6	484.9	4.99	0.1	
23850	6:37:30	85.6	78.2	82.7	484.9	4.99	0.1	
23865	6:37:45	86.2	78.2	82.7	484.9	4.99	0.1	
23880	6:38:00	87.6	78.3	82.7	484.9	4.99	0.1	
23895	6:38:15	86.4	78.3	82.7	485.4	4.99	0.1	
23910	6:38:30	86.0	78.3	82.7	485.4	4.99	0.1	
23925	6:38:45	85.5	78.3	82.7	484.9	4.99	0.1	
23940	6:39:00	85.7	78.4	82.8	485.4	4.99	0.1	System Mid CO/CO2 OUT
23955	6:39:15	85.4	78.4	82.8	484.9	4.99	0.1	
23970	6:39:30	85.4	78.5	82.9	485.4	4.99	0.1	
23985	6:39:45	86.1	78.6	82.9	485.4	4.99	0.1	
24000	6:40:00	85.6	78.7	82.9	485.4	4.99	0.1	
24015	6:40:15	85.5	78.7	82.9	418.9	4.98	0.1	
24030	6:40:30	85.2	78.8	83.0	72.8	0.51	0.1	
24045	6:40:45	85.7	78.9	83.1	169.8	2.00	0.1	
24060	6:41:00	86.1	78.9	83.1	221.4	2.53	0.1	
24075	6:41:15	85.7	78.9	83.1	227.8	2.57	0.1	
24090	6:41:30	85.5	79.0	83.1	229.4	2.57	0.1	Start Low CO/CO2 Bias OUT
24105	6:41:45	85.6	79.0	83.1	230.0	2.57	0.1	
24120	6:42:00	86.9	79.0	83.2	230.5	2.57	0.1	
24135	6:42:15	87.2	79.1	83.2	230.5	2.57	0.1	
24150	6:42:30	86.5	79.1	83.1	230.5	2.57	0.1	
24165	6:42:45	85.8	79.2	83.1	230.5	2.57	0.1	
24180	6:43:00	85.8	79.2	83.1	230.5	2.57	0.1	
24195	6:43:15	85.9	79.3	83.2	231.0	2.57	0.1	
24210	6:43:30	85.5	79.3	83.3	231.0	2.57	0.1	
24225	6:43:45	85.8	79.3	83.3	231.0	2.57	0.1	
24240	6:44:00	85.8	79.4	83.3	231.0	2.57	0.1	
24255	6:44:15	86.6	79.4	83.3	230.5	2.57	0.1	
24270	6:44:30	86.0	79.5	83.3	231.0	2.57	0.1	
24285	6:44:45	85.5	79.5	83.3	231.0	2.57	0.1	
24300	6:45:00	85.1	79.6	83.4	230.5	2.57	0.1	
24315	6:45:15	84.9	79.6	83.4	230.5	2.57	0.1	
24330	6:45:30	84.7	79.7	83.5	230.5	2.57	0.1	
24345	6:45:45	84.9	79.7	83.4	230.5	2.57	0.1	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
24360	6:46:00	85.6	79.7	83.5	230.5	2.57	0.1	
24375	6:46:15	85.0	79.7	83.4	230.5	2.57	0.1	
24390	6:46:30	84.5	79.8	83.5	230.5	2.57	0.0	
24405	6:46:45	84.3	79.9	83.5	230.5	2.57	0.0	
24420	6:47:00	84.8	79.9	83.5	230.5	2.57	0.1	System Low CO/CO2 OUT
24435	6:47:15	85.4	79.9	83.5	230.5	2.57	0.1	
24450	6:47:30	84.4	79.9	83.5	224.1	2.57	0.1	
24465	6:47:45	83.6	79.9	83.5	140.5	2.53	0.1	
24480	6:48:00	82.6	80.0	83.5	32.5	0.41	0.1	
24495	6:48:15	82.3	80.0	83.5	0.0	0.04	0.2	
24510	6:48:30	82.7	80.1	83.5	0.0	0.01	11.8	
24525	6:48:45	84.6	80.1	83.5	0.0	0.01	12.8	
24540	6:49:00	85.0	80.0	83.4	0.0	0.01	13.8	
24555	6:49:15	85.2	80.0	83.4	0.0	0.01	13.9	
24570	6:49:30	85.0	80.0	83.3	0.0	0.01	13.9	
24585	6:49:45	85.0	79.9	83.3	0.0	0.01	13.9	
24600	6:50:00	84.9	80.0	83.2	0.0	0.01	13.9	Start Mid NOx Bias OUT
24615	6:50:15	84.6	79.9	83.2	0.0	0.01	14.0	
24630	6:50:30	84.4	79.9	83.2	0.0	0.02	14.0	
24645	6:50:45	84.5	79.9	83.2	0.0	0.02	14.0	
24660	6:51:00	84.5	80.0	83.1	0.0	0.02	14.0	
24675	6:51:15	85.3	80.0	83.2	0.0	0.02	14.0	
24690	6:51:30	85.4	80.0	83.2	0.0	0.02	14.0	
24705	6:51:45	85.7	80.1	83.2	0.0	0.02	14.0	
24720	6:52:00	86.5	80.1	83.2	0.0	0.02	14.0	
24735	6:52:15	85.4	80.1	83.3	0.0	0.02	14.0	
24750	6:52:30	85.1	80.1	83.2	0.0	0.02	14.0	
24765	6:52:45	86.1	80.2	83.2	0.0	0.03	14.0	
24780	6:53:00	85.5	80.2	83.2	0.0	0.03	14.0	
24795	6:53:15	86.1	80.2	83.2	0.0	0.03	14.0	
24810	6:53:30	86.1	80.2	83.2	0.0	0.03	14.0	
24825	6:53:45	85.3	80.3	83.2	0.0	0.03	14.0	
24840	6:54:00	85.7	80.2	83.1	0.0	0.03	14.0	
24855	6:54:15	86.1	80.3	83.2	0.0	0.03	14.0	
24870	6:54:30	85.8	80.4	83.2	0.0	0.04	14.0	
24885	6:54:45	85.5	80.4	83.2	0.0	0.04	14.0	
24900	6:55:00	85.0	80.4	83.1	0.0	0.04	14.0	System Mid NOx OUT
24915	6:55:15	85.5	80.4	83.1	0.0	0.04	14.0	
24930	6:55:30	85.7	80.4	83.1	0.0	0.04	14.0	
24945	6:55:45	85.8	80.4	83.1	0.0	0.04	13.9	
24960	6:56:00	86.0	80.4	83.0	0.0	0.04	13.9	
24975	6:56:15	86.0	80.4	83.1	0.0	0.05	13.9	
24990	6:56:30	85.6	80.4	83.0	0.0	0.05	2.0	
25005	6:56:45	84.4	80.4	83.1	0.0	0.05	4.1	
25020	6:57:00	85.1	80.4	83.0	0.0	0.05	6.4	
25035	6:57:15	85.7	80.4	83.0	0.0	0.05	6.7	
25050	6:57:30	85.7	80.5	83.0	0.0	0.05	6.7	
25065	6:57:45	86.1	80.5	83.0	0.0	0.06	6.7	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 12, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
25080	6:58:00	86.0	80.5	83.0	0.0	0.06	6.7	Start Low NOx Bias OUT
25095	6:58:15	86.2	80.5	83.0	0.0	0.06	6.7	
25110	6:58:30	86.2	80.6	83.0	0.0	0.06	6.7	
25125	6:58:45	86.5	80.6	83.0	0.0	0.06	6.7	
25140	6:59:00	86.0	80.6	83.0	0.0	0.07	6.7	
25155	6:59:15	86.2	80.6	83.0	0.0	0.06	6.7	
25170	6:59:30	85.5	80.6	83.0	0.0	0.07	6.7	
25185	6:59:45	86.1	80.6	83.0	0.0	0.07	6.7	
25200	7:00:00	85.9	80.6	82.9	0.0	0.07	6.7	
25215	7:00:15	85.7	80.6	82.9	0.0	0.07	6.7	
25230	7:00:30	86.2	80.6	82.9	0.0	0.08	6.7	
25245	7:00:45	85.5	80.6	82.9	0.0	0.08	6.7	
25260	7:01:00	85.9	80.6	82.9	0.0	0.08	6.7	
25275	7:01:15	86.1	80.6	82.9	0.0	0.08	6.7	
25290	7:01:30	86.2	80.7	82.9	0.0	0.08	6.7	
25305	7:01:45	85.8	80.6	82.9	0.0	0.08	6.7	
25320	7:02:00	84.8	80.7	83.0	0.0	0.09	6.7	
25335	7:02:15	84.6	80.7	82.9	0.0	0.09	6.7	
25350	7:02:30	84.6	80.8	83.0	0.0	0.09	6.7	
25365	7:02:45	85.5	80.7	82.9	0.0	0.09	6.7	
25380	7:03:00	85.8	80.7	82.9	0.0	0.09	6.7	System Low NOx OUT
25395	7:03:15	85.4	80.7	82.9	0.0	0.09	6.7	
25410	7:03:30	85.6	80.7	82.8	0.0	0.09	6.7	
25425	7:03:45	85.0	80.7	82.8	0.0	0.09	6.7	
25440	7:04:00	85.4	80.7	82.9	0.0	0.10	6.7	
25455	7:04:15	85.3	80.7	82.8	0.0	0.10	6.7	
25470	7:04:30	85.8	80.7	82.8	0.0	0.10	6.6	
Average = 79.4								

APPENDIX G

Test Results for:

SSB255

High & Intermediate Run#: 3

Date: June 18, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Maximum Rate

Input Rate = 255,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	77.4	79.2	°F
Relative Humidity	62	62	%
Barometer	28.91	28.91	in.Hg
Heating Value	1088	1088	BTU/ft ³
Inlet Pressure	9.4	9.4	in.w.c.
Manifold Pressure	0.70	0.70	in.w.c.
Gas Meter Reading	1952.47	2074.16	ft ³
Gas Temperature	76.0	76.0	°F
Water Meter Reading	687850.10	687982.8	gal

Mass	1105.3	lb
Di	8.329	lb/gal
Dn	8.238	lb/gal

Tin	69.6	°F
Tdel	180.9	°F

Calculations		
Test Start	1:39:00	h:mm:ss
Test End	2:09:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	253,487	BTU/hr
Cf	1.099	no units
Ho	122,775	BTU
Uncorrected Volume	121.69	ft ³
Pressure Correction	0.987	no units
Meter Correction	1.000	no units
Temperature Correction	0.970	no units
F	116.49	ft ³
C	9.0	%
P	14.7	ppm

N = 8.8 ng/J
16.7 ppm @ 3% O₂

Date: June 18, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Intermediate Rate

Input Rate = 153,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	80.2	81.3	°F
Relative Humidity	62	62	%
Barometer	28.91	28.91	in.Hg
Heating Value	1088	1088	BTU/ft ³
Inlet Pressure	8.1	8.1	in.w.c.
Manifold Pressure	0.60	0.6	in.w.c.
Gas Meter Reading	2143.51	2216.80	ft ³
Gas Temperature	70.0	70.0	°F
Water Meter Reading	688063.20	688144.80	gal

Mass	679.5	lb
Di	8.327	lb/gal
Dn	8.236	lb/gal

Tin	71.7	°F
Tdel	181.0	°F

Calculations		
Test Start	2:30:00	h:mm:ss
Test End	3:00:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	153,897	BTU/hr
Cf	1.099	no units
Ho	74,120	BTU
Uncorrected Volume	73.29	ft ³
Pressure Correction	0.984	no units
Meter Correction	1.000	no units
Temperature Correction	0.981	no units
F	70.72	ft ³
C	9.1	%
P	15.8	ppm

N = 9.5 ng/J
17.8 ppm @ 3% O₂

Date: June 18, 2015

High & Intermediate Run#: 3

Manufacturer: RIELLO
Model No.: SSB 255
Serial No.: NONE

Analytic Ranges

NOx = 30 ppm
CO2 = 10 %
CO = 1000 ppm

Pretest Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)	
NOx Zero	0	0.00			0.00	0.10			-0.33
NOx Low	6.95	6.90			0.17	6.85			0.33
NOx Mid	14.56	14.47			0.30	14.36			0.67
NOx High	26.66	26.70			-0.13				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24
CO2 Mid	5.007		5.01		-0.03		4.99		0.17
CO2 High	9.488		9.50		-0.12				
CO Zero	0			0	0.00			0	0.00
CO Low	249.0			241	0.78			237	1.20
CO Mid	502.5			501	0.15			493	0.95
CO High	976			976	0.01				

Post Test Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)	System Drift (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)		
NOx Zero	0	0.03			-0.10	0.32			-1.07	0.73
NOx Low	6.95	6.93			0.07	6.85			0.33	0.00
NOx Mid	14.56	14.58			-0.07	14.36			0.67	0.00
NOx High	26.66	26.40			0.87					
CO2 Zero	0		0.00		0.00		0.00		0.00	0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24	0.00
CO2 Mid	5.007		5.00		0.07		4.99		0.17	0.00
CO2 High	9.488		9.50		-0.12					
CO Zero	0			0	0.00			0.0	0.00	0.00
CO Low	249.0			237	1.16			233	1.63	-0.43
CO Mid	502.5			496	0.66			488	1.49	-0.54
CO High	976			968	0.82					

Calibration Linearity

NOx Pretest	0.373
CO2 Pretest	0.033
CO Pretest	0.140

NOx Post Test	-0.595
CO2 Post Test	0.133
CO Post Test	0.238

Gas Cylinders

Cylinder #	Concentration
EB0018049	Low NOX = 6.95 ppm
CC100400	Mid NOX = 14.56 ppm
CC267435	High NOX = 26.66 ppm
CC129082	CO2 Low = 2.594 %
	CO Low = 249 ppm
CC25693	CO2 Mid = 5.007 %
	CO Mid = 502.5 ppm
CC353963	CO2 High = 9.488 %
	CO High = 976 ppm

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	79.6	75.0	76.1	1.2	0.00	0.0	
15	0:00:15	79.1	75.1	76.1	1.2	0.00	0.0	
30	0:00:30	78.5	75.1	76.1	1.2	0.00	0.0	
45	0:00:45	78.4	75.0	76.2	1.2	0.00	0.0	
60	0:01:00	78.4	75.0	76.2	1.2	0.00	0.0	Start Zero IN
75	0:01:15	78.3	75.1	76.2	1.7	0.00	0.0	
90	0:01:30	78.2	75.1	76.2	1.7	0.00	0.0	
105	0:01:45	78.0	75.1	76.2	1.7	0.00	0.0	
120	0:02:00	77.0	75.1	76.2	1.7	0.00	0.0	
135	0:02:15	77.2	75.2	76.2	1.7	0.00	0.0	
150	0:02:30	77.1	75.1	76.2	1.7	0.00	0.0	
165	0:02:45	76.8	75.2	76.2	1.2	0.00	0.0	
180	0:03:00	76.5	75.1	76.2	1.7	0.00	0.0	
195	0:03:15	76.9	75.2	76.2	1.7	0.00	0.0	
210	0:03:30	77.0	75.2	76.2	1.2	0.00	0.0	
225	0:03:45	77.1	75.3	76.3	1.2	0.00	0.0	
240	0:04:00	76.9	75.2	76.2	1.7	0.00	0.0	
255	0:04:15	77.0	75.3	76.3	1.2	0.00	0.0	
270	0:04:30	77.1	75.2	76.3	0.0	0.00	0.0	
285	0:04:45	76.9	75.3	76.3	0.0	0.00	0.0	
300	0:05:00	77.4	75.3	76.3	0.0	0.00	0.0	
315	0:05:15	77.6	75.2	76.3	0.0	0.00	0.0	
330	0:05:30	77.6	75.3	76.4	0.0	0.00	0.0	
345	0:05:45	78.2	75.3	76.4	0.0	0.00	0.0	
360	0:06:00	77.4	75.3	76.3	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	78.2	75.4	76.4	0.0	0.00	0.0	
390	0:06:30	77.0	75.3	76.4	0.0	0.00	0.0	
405	0:06:45	77.4	75.4	76.4	428.2	2.19	0.0	
420	0:07:00	76.5	75.4	76.4	916.0	9.21	11.2	
435	0:07:15	76.6	75.4	76.4	965.2	9.46	22.5	
450	0:07:30	77.1	75.4	76.4	972.7	9.51	25.3	
465	0:07:45	76.7	75.4	76.4	975.4	9.52	25.4	
480	0:08:00	76.4	75.4	76.4	975.9	9.52	25.5	
495	0:08:15	76.8	75.4	76.4	976.4	9.53	25.6	
510	0:08:30	76.6	75.4	76.4	976.4	10.51	25.6	
525	0:08:45	77.1	75.4	76.4	975.9	9.50	25.6	
540	0:09:00	76.6	75.4	76.4	975.9	9.50	26.7	Start High Span IN
555	0:09:15	76.5	75.4	76.3	975.9	9.50	26.7	
570	0:09:30	76.2	75.4	76.4	975.9	9.50	26.7	
585	0:09:45	76.0	75.5	76.4	976.4	9.50	26.8	
600	0:10:00	75.8	75.5	76.4	975.9	9.50	26.8	
615	0:10:15	75.6	75.6	76.5	975.9	9.50	26.8	
630	0:10:30	75.6	75.6	76.5	975.9	9.50	26.8	
645	0:10:45	75.7	75.6	76.6	975.9	9.50	26.8	
660	0:11:00	75.6	75.7	76.5	975.3	9.50	26.8	
675	0:11:15	75.9	75.7	76.6	975.9	9.50	26.8	
690	0:11:30	76.3	75.7	76.6	975.9	9.50	26.8	
705	0:11:45	76.7	75.7	76.6	975.9	9.51	26.7	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	76.1	75.6	76.6	975.9	9.50	26.7	
735	0:12:15	76.4	75.6	76.5	975.8	9.50	26.7	
750	0:12:30	76.9	75.6	76.6	975.9	9.50	26.7	
765	0:12:45	76.7	75.6	76.6	975.9	9.50	26.7	
780	0:13:00	76.7	75.6	76.5	975.6	9.49	26.7	
795	0:13:15	77.7	75.6	76.5	975.3	9.50	26.7	
810	0:13:30	77.0	75.6	76.5	975.3	9.50	26.7	
825	0:13:45	76.6	75.6	76.5	975.9	9.50	26.7	
840	0:14:00	76.5	75.7	76.5	975.9	9.50	26.7	Analyzer High Span IN
855	0:14:15	78.0	75.7	76.5	975.9	9.50	26.7	
870	0:14:30	78.1	75.7	76.5	975.9	9.50	26.7	
885	0:14:45	77.1	75.7	76.6	975.3	9.50	26.7	
900	0:15:00	76.4	75.7	76.6	975.3	9.50	26.7	
915	0:15:15	76.3	75.8	76.5	974.3	9.49	26.7	
930	0:15:30	76.7	75.7	76.5	668.5	6.15	24.4	
945	0:15:45	76.7	75.7	76.5	516.5	5.07	18.1	
960	0:16:00	77.4	75.7	76.5	505.8	5.01	13.0	
975	0:16:15	77.1	75.7	76.5	502.6	5.01	14.2	
990	0:16:30	77.1	75.7	76.5	501.5	5.01	14.4	
1005	0:16:45	77.0	75.6	76.6	501.5	5.01	14.4	
1020	0:17:00	77.1	75.6	76.5	501.6	5.01	14.4	Start Mid Span IN
1035	0:17:15	77.1	75.6	76.5	501.5	5.01	14.5	
1050	0:17:30	76.9	75.6	76.5	501.6	5.01	14.5	
1065	0:17:45	77.0	75.6	76.5	501.6	5.01	14.5	
1080	0:18:00	76.7	75.6	76.5	501.5	5.01	14.5	
1095	0:18:15	76.6	75.6	76.5	501.6	5.01	14.5	
1110	0:18:30	76.7	75.7	76.6	501.5	5.01	14.5	
1125	0:18:45	76.5	75.7	76.6	501.5	5.01	14.5	
1140	0:19:00	76.6	75.6	76.5	501.6	5.01	14.5	
1155	0:19:15	76.7	75.6	76.5	501.5	5.01	14.5	
1170	0:19:30	76.9	75.7	76.5	501.5	5.01	14.5	
1185	0:19:45	77.0	75.7	76.6	501.5	5.01	14.5	
1200	0:20:00	76.8	75.7	76.5	501.5	5.01	14.5	
1215	0:20:15	77.3	75.7	76.6	501.5	5.01	14.5	
1230	0:20:30	77.3	75.1	76.6	501.6	5.01	14.5	
1245	0:20:45	77.5	74.1	76.9	501.5	5.01	14.5	
1260	0:21:00	77.7	69.9	76.6	501.5	5.01	14.5	
1275	0:21:15	77.2	68.7	75.6	501.5	5.01	14.5	
1290	0:21:30	76.9	68.7	75.3	501.5	5.01	14.5	
1305	0:21:45	76.6	68.9	75.2	501.0	5.01	14.5	
1320	0:22:00	76.4	69.1	74.9	501.0	5.01	14.5	Analyzer Mid Span IN
1335	0:22:15	76.2	69.4	74.4	501.0	5.01	14.5	
1350	0:22:30	76.3	69.7	73.6	501.0	5.01	14.5	
1365	0:22:45	76.3	70.1	72.8	501.0	5.01	14.5	
1380	0:23:00	75.5	70.4	72.1	501.0	5.01	14.5	
1395	0:23:15	75.4	70.7	71.4	501.0	5.01	14.5	
1410	0:23:30	75.8	71.1	71.0	501.5	5.01	14.5	
1425	0:23:45	75.9	71.3	70.6	501.0	5.00	13.2	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	75.9	71.5	70.4	501.0	5.01	11.4	
1455	0:24:15	76.2	71.7	70.4	321.0	3.17	10.8	
1470	0:24:30	77.1	71.9	70.4	250.8	2.60	10.4	
1485	0:24:45	77.6	72.1	70.6	244.4	2.58	8.2	
1500	0:25:00	76.8	72.2	70.7	242.3	2.57	6.3	Start Low Span IN
1515	0:25:15	76.2	72.4	71.0	241.8	2.57	6.6	
1530	0:25:30	76.1	72.5	71.2	241.8	2.57	6.8	
1545	0:25:45	76.0	72.6	71.4	241.8	2.57	6.9	
1560	0:26:00	76.2	72.8	71.7	241.8	2.57	6.9	
1575	0:26:15	76.4	72.8	71.9	241.2	2.57	6.9	
1590	0:26:30	77.0	72.9	72.1	241.7	2.57	6.9	
1605	0:26:45	76.9	73.0	72.3	241.8	2.57	6.9	
1620	0:27:00	76.8	73.0	72.5	241.8	2.57	6.9	
1635	0:27:15	77.2	72.9	72.7	241.8	2.57	6.9	
1650	0:27:30	77.2	72.9	72.8	241.8	2.57	6.9	
1665	0:27:45	77.0	72.8	72.9	241.8	2.57	6.9	
1680	0:28:00	77.3	72.8	73.0	241.8	2.57	6.9	
1695	0:28:15	77.5	72.7	73.2	241.8	2.57	6.9	
1710	0:28:30	77.5	72.6	73.3	241.8	2.57	6.9	
1725	0:28:45	77.2	72.6	73.4	241.8	2.57	6.9	
1740	0:29:00	77.1	72.5	73.4	241.8	2.57	6.9	
1755	0:29:15	77.3	72.3	73.4	241.8	2.57	6.9	
1770	0:29:30	76.9	72.2	73.5	241.8	2.57	6.9	
1785	0:29:45	76.7	72.1	73.4	241.8	2.57	6.9	
1800	0:30:00	76.4	72.0	73.4	241.3	2.57	6.9	Analyzer Low Span IN
1815	0:30:15	76.2	72.0	73.4	241.3	2.57	6.9	
1830	0:30:30	76.6	71.9	73.4	241.2	2.57	6.9	
1845	0:30:45	76.3	71.8	73.3	241.3	2.57	6.6	
1860	0:31:00	76.1	71.8	73.3	204.9	2.56	6.6	
1875	0:31:15	76.3	71.6	73.2	28.5	0.20	6.9	
1890	0:31:30	76.2	71.5	73.1	3.3	0.03	0.2	
1905	0:31:45	76.5	71.5	73.0	0.0	0.01	0.2	
1920	0:32:00	76.6	71.4	73.0	0.0	0.00	0.2	
1935	0:32:15	77.2	71.2	72.9	0.0	0.00	0.2	
1950	0:32:30	78.0	71.1	76.0	0.0	0.00	0.2	
1965	0:32:45	77.4	71.0	96.6	0.0	0.00	0.2	
1980	0:33:00	77.8	70.9	125.2	0.0	0.00	0.2	Start Zero Bias IN
1995	0:33:15	77.7	70.8	150.0	0.0	0.00	0.2	
2010	0:33:30	77.2	70.8	164.2	0.0	0.00	0.2	
2025	0:33:45	77.2	70.7	171.8	0.0	0.00	0.2	
2040	0:34:00	77.4	70.6	174.9	0.0	0.00	0.2	
2055	0:34:15	77.6	70.5	177.6	0.0	0.00	0.2	
2070	0:34:30	78.3	70.4	178.9	0.0	0.00	0.1	
2085	0:34:45	78.4	70.2	181.0	0.0	0.00	0.1	
2100	0:35:00	78.5	70.2	181.6	0.0	0.00	0.1	
2115	0:35:15	78.1	70.1	182.3	0.0	0.00	0.1	
2130	0:35:30	77.8	70.0	182.7	0.0	0.00	0.1	
2145	0:35:45	77.6	70.0	183.0	0.0	0.00	0.1	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	76.9	69.9	183.7	0.0	0.00	0.1	
2175	0:36:15	76.8	69.8	183.6	0.0	0.00	0.1	
2190	0:36:30	76.0	69.8	183.5	0.0	0.00	0.1	
2205	0:36:45	76.3	69.8	185.3	0.0	0.00	0.1	
2220	0:37:00	76.5	69.7	184.0	0.0	0.00	0.1	
2235	0:37:15	76.3	69.7	183.0	0.0	0.00	0.1	
2250	0:37:30	76.9	69.7	177.9	0.0	0.00	0.1	
2265	0:37:45	77.3	69.5	170.9	0.0	0.00	0.1	
2280	0:38:00	77.9	69.3	162.0	0.0	0.00	0.1	System Zero IN
2295	0:38:15	77.6	69.2	148.4	0.0	0.00	0.1	
2310	0:38:30	77.3	69.1	139.4	0.0	0.00	0.1	
2325	0:38:45	77.2	68.8	136.9	0.0	0.00	0.1	
2340	0:39:00	77.8	68.8	135.2	0.0	0.03	0.1	
2355	0:39:15	77.7	68.7	134.9	338.6	3.75	0.1	
2370	0:39:30	78.1	68.4	133.5	474.2	4.85	0.1	
2385	0:39:45	78.2	68.4	133.7	486.1	4.94	0.1	
2400	0:40:00	77.6	68.3	134.6	490.4	4.97	0.1	
2415	0:40:15	76.9	68.3	150.7	492.0	4.98	0.1	
2430	0:40:30	77.2	68.1	162.1	492.5	4.98	0.1	
2445	0:40:45	77.2	68.1	168.0	492.5	4.98	0.1	
2460	0:41:00	77.5	67.9	170.4	493.0	4.98	0.1	Start Mid CO/CO2 Bias IN
2475	0:41:15	77.4	67.9	172.3	493.0	4.99	0.1	
2490	0:41:30	78.0	67.8	173.4	493.0	4.99	0.1	
2505	0:41:45	77.7	67.7	173.4	493.0	4.99	0.1	
2520	0:42:00	77.6	67.7	172.9	493.0	4.99	0.1	
2535	0:42:15	77.2	67.6	174.1	493.0	4.99	0.1	
2550	0:42:30	77.4	67.5	174.5	493.0	4.99	0.1	
2565	0:42:45	77.3	67.4	173.2	493.0	4.99	0.1	
2580	0:43:00	77.4	67.3	174.2	493.0	4.99	0.1	
2595	0:43:15	76.8	67.3	173.4	493.0	4.99	0.1	
2610	0:43:30	76.9	67.2	173.8	493.0	4.99	0.1	
2625	0:43:45	77.3	67.2	174.8	493.0	4.99	0.1	
2640	0:44:00	78.0	67.1	173.9	493.0	4.99	0.1	
2655	0:44:15	77.8	67.4	174.7	493.0	4.99	0.1	
2670	0:44:30	77.1	68.1	175.1	493.0	4.99	0.1	
2685	0:44:45	77.2	68.3	175.4	493.0	4.99	0.1	
2700	0:45:00	76.6	68.5	175.7	493.6	4.99	0.1	
2715	0:45:15	76.6	68.7	176.4	493.0	4.99	0.1	
2730	0:45:30	77.1	68.8	176.2	493.0	4.99	0.1	
2745	0:45:45	78.2	68.9	177.3	493.0	4.99	0.1	
2760	0:46:00	78.3	69.1	177.3	493.0	4.99	0.1	System Mid CO/CO2 IN
2775	0:46:15	78.4	69.2	178.0	493.0	4.99	0.1	
2790	0:46:30	78.1	69.2	176.9	493.0	4.99	0.1	
2805	0:46:45	77.8	69.4	177.0	436.4	4.86	0.1	
2820	0:47:00	77.8	69.3	177.1	163.6	1.13	0.1	
2835	0:47:15	77.8	69.3	178.0	223.7	2.46	0.1	
2850	0:47:30	78.4	69.2	178.4	232.7	2.55	0.0	
2865	0:47:45	78.9	69.3	178.3	235.4	2.57	0.0	

Manufacturer: RIELLO
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Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	78.3	69.3	178.3	236.5	2.57	0.0
2895	0:48:15	78.5	69.2	177.6	237.0	2.57	0.0
2910	0:48:30	78.8	69.2	179.9	237.0	2.57	0.0
2925	0:48:45	78.9	69.1	179.7	237.0	2.57	0.0
2940	0:49:00	78.9	69.0	180.0	237.0	2.57	0.0
2955	0:49:15	79.0	69.0	179.9	237.0	2.57	0.0
2970	0:49:30	79.2	69.1	179.6	237.0	2.57	0.0
2985	0:49:45	79.7	69.0	179.1	237.0	2.57	0.0
3000	0:50:00	80.1	69.2	178.7	237.0	2.57	0.0
3015	0:50:15	79.9	69.1	177.9	237.0	2.57	0.0
3030	0:50:30	79.3	69.1	178.2	236.5	2.57	0.0
3045	0:50:45	79.1	69.0	179.6	237.0	2.57	0.0
3060	0:51:00	79.4	68.9	179.2	237.0	2.57	0.0
3075	0:51:15	79.0	69.0	179.7	236.5	2.57	0.0
3090	0:51:30	79.5	69.1	179.0	236.5	2.57	0.0
3105	0:51:45	79.7	69.1	179.4	236.5	2.57	0.0
3120	0:52:00	80.1	69.1	179.2	236.5	2.57	0.0
3135	0:52:15	80.0	69.0	179.6	236.5	2.57	0.0
3150	0:52:30	79.3	69.0	179.7	236.5	2.57	0.0
3165	0:52:45	79.1	69.0	179.6	237.0	2.57	0.0
3180	0:53:00	78.7	69.0	178.1	237.0	2.57	0.0
3195	0:53:15	79.3	69.0	178.7	236.5	2.57	0.0
3210	0:53:30	79.8	69.1	178.1	236.5	2.57	0.0
3225	0:53:45	79.4	69.0	178.8	237.0	2.57	0.0
3240	0:54:00	79.5	69.0	178.1	237.0	2.57	0.0
3255	0:54:15	79.5	69.0	178.2	236.5	2.57	0.0
3270	0:54:30	79.6	69.0	178.4	236.5	2.57	0.0
3285	0:54:45	79.6	68.9	179.4	236.5	2.57	0.0
3300	0:55:00	79.4	68.8	178.4	236.5	2.57	0.0
3315	0:55:15	78.1	68.8	179.3	234.9	2.57	0.0
3330	0:55:30	77.6	68.9	179.4	55.7	0.56	0.0
3345	0:55:45	77.0	68.8	178.8	4.4	0.06	1.0
3360	0:56:00	77.2	68.9	178.6	0.0	0.02	8.1
3375	0:56:15	76.8	68.8	179.6	0.0	0.01	14.1
3390	0:56:30	77.0	69.0	177.7	0.0	0.01	14.2
3405	0:56:45	77.4	68.9	178.7	0.0	0.01	14.3
3420	0:57:00	77.5	68.8	178.4	0.0	0.01	14.3
3435	0:57:15	77.8	69.0	179.0	0.0	0.01	14.3
3450	0:57:30	77.3	68.9	178.2	0.0	0.01	14.3
3465	0:57:45	76.7	68.9	178.8	0.0	0.01	14.3
3480	0:58:00	78.0	68.9	178.3	0.0	0.01	14.3
3495	0:58:15	77.5	68.9	178.5	0.0	0.01	14.3
3510	0:58:30	77.3	68.8	178.0	0.0	0.01	14.3
3525	0:58:45	78.0	68.8	178.4	0.0	0.01	14.3
3540	0:59:00	79.2	68.8	177.9	0.0	0.01	14.3
3555	0:59:15	79.6	68.8	179.1	0.0	0.01	14.4
3570	0:59:30	79.4	68.4	180.9	0.0	0.02	14.4
3585	0:59:45	79.4	68.5	179.5	0.0	0.02	14.4

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	79.7	68.7	179.1	0.0	0.02	14.4	
3615	1:00:15	79.7	68.6	179.3	0.0	0.02	14.4	
3630	1:00:30	79.6	68.7	178.4	0.0	0.02	14.4	
3645	1:00:45	79.0	68.8	178.4	0.0	0.02	14.4	
3660	1:01:00	79.2	68.7	178.7	0.0	0.02	14.4	
3675	1:01:15	79.2	68.8	178.4	0.0	0.02	14.4	
3690	1:01:30	79.7	68.8	178.0	0.0	0.02	14.4	
3705	1:01:45	79.1	68.7	180.0	0.0	0.02	14.4	
3720	1:02:00	79.0	68.8	178.2	0.0	0.02	14.4	System Mid NOx IN
3735	1:02:15	78.2	68.8	179.6	0.0	0.02	14.4	
3750	1:02:30	78.8	68.6	179.9	0.0	0.03	14.4	
3765	1:02:45	78.6	68.7	180.9	0.0	0.03	14.3	
3780	1:03:00	78.7	68.7	178.5	0.0	0.03	12.7	
3795	1:03:15	78.3	68.7	178.6	0.0	0.03	11.2	
3810	1:03:30	79.0	68.7	177.8	0.0	0.03	1.5	
3825	1:03:45	78.6	68.8	179.3	0.0	0.03	4.1	
3840	1:04:00	78.8	68.8	178.5	0.0	0.03	6.8	
3855	1:04:15	78.9	68.7	178.8	0.0	0.03	6.8	
3870	1:04:30	79.5	68.7	178.4	0.0	0.03	6.9	
3885	1:04:45	79.3	68.8	177.9	0.0	0.03	6.9	
3900	1:05:00	79.3	68.7	179.2	0.0	0.04	6.9	Start Low NOx Bias IN
3915	1:05:15	79.2	68.8	178.8	0.0	0.04	6.9	
3930	1:05:30	79.5	69.0	179.4	0.0	0.04	6.9	
3945	1:05:45	79.8	68.9	181.5	0.0	0.04	6.9	
3960	1:06:00	80.2	69.0	180.8	0.0	0.04	6.9	
3975	1:06:15	80.3	69.0	180.1	0.0	0.04	6.9	
3990	1:06:30	80.5	69.1	180.5	0.0	0.04	6.9	
4005	1:06:45	80.5	69.1	180.3	0.0	0.04	6.9	
4020	1:07:00	80.7	69.1	179.5	0.0	0.04	6.9	
4035	1:07:15	80.6	69.2	179.5	0.0	0.04	6.9	
4050	1:07:30	80.4	69.3	179.9	0.0	0.04	6.9	
4065	1:07:45	80.7	69.2	181.0	0.0	0.05	6.9	
4080	1:08:00	80.9	69.2	179.7	0.0	0.05	6.9	
4095	1:08:15	80.5	69.1	180.4	0.0	0.05	6.9	
4110	1:08:30	80.3	69.0	179.8	0.0	0.05	6.9	
4125	1:08:45	80.1	69.2	180.2	0.0	0.05	6.9	
4140	1:09:00	79.7	69.1	181.2	0.0	0.06	6.9	
4155	1:09:15	79.6	69.0	181.6	0.0	0.06	6.9	
4170	1:09:30	79.6	69.0	181.3	0.0	0.06	6.9	
4185	1:09:45	79.9	69.2	181.0	0.0	0.06	6.9	
4200	1:10:00	80.7	69.2	181.2	0.0	0.06	6.9	System Low NOx IN
4215	1:10:15	80.3	69.3	180.8	0.0	0.06	6.9	
4230	1:10:30	79.8	69.2	181.4	0.0	0.06	6.9	
4245	1:10:45	79.7	69.2	181.8	0.0	0.06	6.8	
4260	1:11:00	79.6	69.2	181.7	0.0	0.06	5.9	
4275	1:11:15	78.8	69.3	180.4	0.0	0.06	5.1	
4290	1:11:30	78.8	69.3	181.8	0.0	0.07	0.3	
4305	1:11:45	78.8	69.3	180.9	0.0	0.07	0.3	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
4320	1:12:00	78.0	69.4	181.0	0.0	0.07	0.2
4335	1:12:15	77.9	69.4	181.2	0.0	0.07	0.2
4350	1:12:30	79.2	69.4	181.0	0.0	0.07	0.2
4365	1:12:45	79.1	69.3	180.5	0.0	0.07	0.2
4380	1:13:00	78.5	69.4	180.6	0.0	0.07	0.1
4395	1:13:15	78.3	69.3	181.1	0.0	0.07	0.1
4410	1:13:30	78.5	69.4	181.2	0.0	0.07	0.1
4425	1:13:45	79.7	69.4	180.4	0.0	0.07	0.1
4440	1:14:00	79.1	69.3	181.2	0.0	0.07	0.1
4455	1:14:15	78.9	69.3	180.8	0.0	0.08	0.1
4470	1:14:30	78.9	69.4	180.4	0.0	0.08	0.6
4485	1:14:45	79.4	69.3	181.4	0.0	0.08	0.4
4500	1:15:00	79.4	69.5	181.4	1.7	0.15	0.1
4515	1:15:15	79.4	69.3	181.1	54.2	7.78	0.1
4530	1:15:30	79.2	69.2	182.6	65.6	8.87	11.2
4545	1:15:45	79.4	69.3	181.1	68.2	8.98	12.0
4560	1:16:00	79.1	69.3	182.0	69.3	9.02	12.9
4575	1:16:15	78.9	69.4	181.1	69.8	9.02	13.1
4590	1:16:30	78.8	69.4	180.4	70.4	9.04	13.2
4605	1:16:45	78.9	69.5	181.2	70.4	9.04	13.4
4620	1:17:00	79.3	69.7	180.8	70.4	9.03	13.6
4635	1:17:15	78.9	69.6	182.2	70.4	9.04	13.6
4650	1:17:30	78.9	69.2	183.4	70.4	9.05	13.8
4665	1:17:45	78.4	69.3	181.7	69.8	9.04	13.8
4680	1:18:00	78.1	69.5	182.4	68.8	9.04	13.8
4695	1:18:15	77.6	69.5	180.8	68.2	9.03	13.8
4710	1:18:30	78.3	69.6	180.1	68.8	9.03	13.9
4725	1:18:45	78.7	69.5	180.6	68.8	9.03	13.9
4740	1:19:00	78.7	69.6	181.1	68.8	9.03	14.0
4755	1:19:15	78.6	69.5	180.7	69.3	9.04	14.1
4770	1:19:30	78.8	69.6	180.7	70.4	9.05	14.4
4785	1:19:45	79.1	69.5	180.5	70.9	9.06	14.5
4800	1:20:00	79.0	69.6	181.0	70.4	9.06	14.6
4815	1:20:15	78.9	69.6	180.5	70.4	9.06	14.7
4830	1:20:30	79.0	69.5	180.2	70.4	9.05	14.6
4845	1:20:45	78.5	69.5	179.9	70.4	9.06	14.6
4860	1:21:00	78.0	69.6	180.7	69.8	9.05	14.6
4875	1:21:15	78.5	69.4	181.5	69.8	9.05	14.6
4890	1:21:30	78.7	69.5	181.5	69.8	9.05	14.6
4905	1:21:45	78.8	69.5	182.0	69.8	9.04	14.6
4920	1:22:00	78.7	69.5	181.4	69.3	9.04	14.7
4935	1:22:15	78.8	69.5	181.2	69.3	9.03	14.8
4950	1:22:30	78.8	69.5	180.4	69.3	9.03	14.7
4965	1:22:45	79.0	69.5	180.2	69.3	9.04	14.7
4980	1:23:00	79.1	69.5	180.0	68.8	9.03	14.8
4995	1:23:15	78.9	69.4	180.4	68.8	9.03	14.8
5010	1:23:30	78.9	69.5	181.0	69.3	9.04	14.8
5025	1:23:45	79.0	69.4	180.7	69.3	9.05	14.8

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5040	1:24:00	78.9	69.4	180.6	69.3	9.06	14.8	
5055	1:24:15	78.6	69.3	182.0	69.3	9.06	14.8	
5070	1:24:30	78.6	69.3	180.7	68.8	9.05	14.8	
5085	1:24:45	78.7	69.3	180.7	68.8	9.05	14.7	
5100	1:25:00	78.8	69.5	181.1	68.8	9.06	14.8	
5115	1:25:15	78.6	69.4	180.1	68.8	9.04	14.9	
5130	1:25:30	79.1	69.4	180.5	68.8	9.04	14.7	
5145	1:25:45	78.7	69.2	181.5	68.8	9.04	14.7	
5160	1:26:00	78.5	69.3	180.9	68.8	9.05	14.8	
5175	1:26:15	78.4	69.4	180.2	68.2	9.05	14.8	
5190	1:26:30	78.1	69.4	181.0	68.8	9.05	14.7	
5205	1:26:45	78.5	69.4	180.0	69.3	9.05	14.8	
5220	1:27:00	78.7	69.4	180.8	69.3	9.05	14.9	
5235	1:27:15	78.8	69.4	179.1	69.3	9.05	14.9	
5250	1:27:30	78.6	69.3	179.6	69.3	9.05	14.9	
5265	1:27:45	78.8	69.4	179.6	69.3	9.05	14.9	
5280	1:28:00	78.9	69.4	180.4	69.3	9.05	14.8	
5295	1:28:15	78.7	69.5	180.5	69.8	9.05	14.9	
5310	1:28:30	78.8	69.4	179.6	69.3	9.05	14.9	
5325	1:28:45	78.9	69.4	180.7	69.3	9.05	14.9	
5340	1:29:00	79.1	69.5	180.0	69.3	9.04	14.9	
5355	1:29:15	79.1	69.4	180.7	68.8	9.04	14.9	
5370	1:29:30	79.1	69.4	179.7	69.1	9.04	14.8	
5385	1:29:45	79.1	69.5	179.7	69.8	9.07	14.9	
5400	1:30:00	79.3	69.5	180.6	69.3	9.06	14.9	
5415	1:30:15	79.2	69.2	180.8	68.8	9.05	14.9	
5430	1:30:30	78.6	69.3	181.3	68.2	9.04	14.7	
5445	1:30:45	79.1	69.4	181.1	67.7	9.03	14.7	
5460	1:31:00	79.0	69.4	179.5	67.7	9.04	14.7	
5475	1:31:15	78.9	69.4	180.8	67.2	9.02	14.7	
5490	1:31:30	79.2	69.4	179.4	67.2	9.02	14.5	
5505	1:31:45	78.9	69.3	180.3	67.2	9.02	14.5	
5520	1:32:00	78.5	69.4	180.9	67.2	9.02	14.6	
5535	1:32:15	78.6	69.3	179.5	67.7	9.02	14.7	
5550	1:32:30	78.8	69.5	180.2	67.7	9.03	14.5	
5565	1:32:45	78.9	69.3	180.7	67.7	9.03	14.5	
5580	1:33:00	79.3	69.3	179.7	68.2	9.04	14.6	Start High Fire Equilibrium - #3
5595	1:33:15	79.2	69.3	180.6	68.8	9.04	14.6	
5610	1:33:30	78.8	69.3	181.1	69.3	9.04	14.8	
5625	1:33:45	78.8	69.3	179.4	69.3	9.04	14.8	
5640	1:34:00	79.1	69.3	180.4	68.8	9.04	14.8	
5655	1:34:15	78.9	69.4	181.4	68.8	9.04	14.8	
5670	1:34:30	78.8	69.3	179.9	68.8	9.04	14.6	
5685	1:34:45	78.9	69.4	180.3	69.3	9.05	14.7	
5700	1:35:00	79.1	69.3	180.2	68.8	9.04	14.8	
5715	1:35:15	79.3	69.3	181.7	68.8	9.05	14.7	
5730	1:35:30	79.0	69.3	180.1	68.8	9.05	14.7	
5745	1:35:45	78.5	69.4	180.6	68.8	9.05	14.7	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5760	1:36:00	78.5	69.4	180.6	68.2	9.04	14.7	
5775	1:36:15	78.7	69.3	180.5	68.2	9.03	14.6	
5790	1:36:30	78.7	69.5	180.4	68.2	9.04	14.6	
5805	1:36:45	78.7	69.4	181.2	68.2	9.04	14.6	
5820	1:37:00	78.6	69.4	181.0	68.8	9.04	14.6	
5835	1:37:15	78.8	69.4	179.6	68.8	9.04	14.7	
5850	1:37:30	79.0	69.3	180.3	68.2	9.04	14.7	
5865	1:37:45	78.9	69.4	180.2	68.2	9.04	14.6	
5880	1:38:00	78.6	69.4	181.5	68.2	9.04	14.6	End High Fire Equilibrium - #3
5895	1:38:15	78.3	69.5	180.7	67.7	9.04	14.6	
5910	1:38:30	77.6	69.5	181.4	67.2	9.03	14.6	
5925	1:38:45	77.6	69.6	179.7	66.6	9.01	14.5	
5940	1:39:00	77.4	69.6	181.1	66.6	9.01	14.4	Start Test - High Fire - #3
5955	1:39:15	78.0	69.4	180.9	66.6	9.03	14.3	
5970	1:39:30	78.4	69.4	180.6	66.6	9.01	14.4	
5985	1:39:45	78.7	69.5	181.8	66.6	9.01	14.4	
6000	1:40:00	78.8	69.5	181.3	66.6	9.00	14.4	
6015	1:40:15	78.9	69.5	181.6	66.6	9.01	14.4	
6030	1:40:30	78.9	69.4	180.7	67.2	9.02	14.5	
6045	1:40:45	78.8	69.5	180.3	67.7	9.03	14.5	
6060	1:41:00	78.6	69.5	181.0	68.2	9.03	14.6	
6075	1:41:15	78.8	69.5	181.1	68.8	9.05	14.6	
6090	1:41:30	78.8	69.5	181.8	69.3	9.05	14.7	
6105	1:41:45	78.8	69.4	181.2	69.3	9.05	14.8	
6120	1:42:00	79.0	69.4	181.7	69.3	9.06	14.8	
6135	1:42:15	79.1	69.4	181.4	69.3	9.05	14.8	
6150	1:42:30	79.2	69.2	181.3	69.3	9.05	14.7	
6165	1:42:45	79.2	69.4	181.9	69.3	9.05	14.7	
6180	1:43:00	79.2	69.4	181.7	69.3	9.06	14.8	
6195	1:43:15	79.4	69.3	180.8	69.8	9.07	14.8	
6210	1:43:30	79.5	69.5	181.3	70.3	9.07	14.9	
6225	1:43:45	79.3	69.4	180.0	69.8	9.07	15.0	
6240	1:44:00	80.0	69.4	180.2	69.8	9.07	14.9	
6255	1:44:15	79.6	69.4	180.9	69.8	9.08	14.8	
6270	1:44:30	79.7	69.5	181.3	69.3	9.06	14.9	
6285	1:44:45	79.8	69.5	180.1	69.8	9.06	14.8	
6300	1:45:00	79.7	69.6	181.4	70.3	9.07	14.8	
6315	1:45:15	79.0	69.5	180.8	69.8	9.06	15.0	
6330	1:45:30	78.9	69.3	182.6	69.3	9.06	14.9	
6345	1:45:45	79.4	69.3	182.6	69.3	9.06	14.8	
6360	1:46:00	79.6	69.5	180.6	69.8	9.07	14.8	
6375	1:46:15	79.0	69.4	180.6	69.8	9.07	14.9	
6390	1:46:30	79.4	69.5	181.1	69.3	9.06	14.9	
6405	1:46:45	79.1	69.4	181.4	69.3	9.06	14.8	
6420	1:47:00	79.5	69.5	180.0	68.8	9.05	14.8	
6435	1:47:15	79.2	69.5	181.5	69.3	9.06	14.8	
6450	1:47:30	79.4	69.4	181.1	69.3	9.06	14.9	
6465	1:47:45	79.4	69.5	181.3	68.8	9.05	14.9	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
6480	1:48:00	79.5	69.5	180.9	69.3	9.05	14.8
6495	1:48:15	79.3	69.4	181.1	69.8	9.06	14.8
6510	1:48:30	79.2	69.5	181.8	69.3	9.05	14.9
6525	1:48:45	79.4	69.3	181.5	69.8	9.05	14.9
6540	1:49:00	79.8	69.4	181.2	69.3	9.05	14.9
6555	1:49:15	80.0	69.4	181.1	68.8	9.05	14.8
6570	1:49:30	79.9	69.4	180.7	68.7	9.05	14.8
6585	1:49:45	79.8	69.6	180.3	69.3	9.06	14.9
6600	1:50:00	79.8	69.4	180.0	68.8	9.05	14.9
6615	1:50:15	79.6	69.4	180.4	68.7	9.05	14.9
6630	1:50:30	79.5	69.4	180.7	68.8	9.05	14.8
6645	1:50:45	79.2	69.4	180.3	68.7	9.05	14.8
6660	1:51:00	79.5	69.4	180.6	68.7	9.05	14.7
6675	1:51:15	79.7	69.4	180.5	68.1	9.03	14.7
6690	1:51:30	78.9	69.5	180.0	68.2	9.04	14.6
6705	1:51:45	79.2	69.5	181.5	68.2	9.05	14.6
6720	1:52:00	79.1	69.5	180.2	68.2	9.04	14.7
6735	1:52:15	79.6	69.4	179.9	68.2	9.05	14.7
6750	1:52:30	79.3	69.5	181.1	68.2	9.04	14.8
6765	1:52:45	79.2	69.4	180.9	68.2	9.03	14.7
6780	1:53:00	79.3	69.5	181.4	68.7	9.04	14.8
6795	1:53:15	79.5	69.6	180.7	69.3	9.05	14.8
6810	1:53:30	79.5	69.5	180.6	69.8	9.06	14.8
6825	1:53:45	79.5	69.5	181.3	69.8	9.06	14.9
6840	1:54:00	79.9	69.5	180.3	69.3	9.05	14.9
6855	1:54:15	79.7	69.4	181.5	68.7	9.05	14.7
6870	1:54:30	79.2	69.4	181.8	68.7	9.05	14.8
6885	1:54:45	79.8	69.5	181.9	68.2	9.03	14.8
6900	1:55:00	78.6	69.4	181.8	68.2	9.04	14.7
6915	1:55:15	78.8	69.4	181.7	67.7	9.02	14.7
6930	1:55:30	79.0	69.6	181.2	67.7	9.02	14.6
6945	1:55:45	78.9	69.7	181.4	67.7	9.02	14.6
6960	1:56:00	78.5	69.8	180.6	68.2	9.02	14.6
6975	1:56:15	78.8	69.8	180.6	67.7	9.02	14.7
6990	1:56:30	79.1	69.9	181.2	67.7	9.01	14.6
7005	1:56:45	79.0	69.9	181.9	67.2	9.00	14.6
7020	1:57:00	79.7	69.8	181.6	67.2	9.00	14.5
7035	1:57:15	79.7	69.8	181.4	67.7	9.02	14.5
7050	1:57:30	79.1	69.8	180.8	67.7	9.02	14.6
7065	1:57:45	79.1	69.8	180.9	68.2	9.02	14.6
7080	1:58:00	78.4	69.8	181.2	67.7	9.02	14.6
7095	1:58:15	78.6	69.8	180.0	67.7	9.02	14.6
7110	1:58:30	79.6	69.8	179.9	67.7	9.02	14.6
7125	1:58:45	79.7	69.9	181.1	68.2	9.02	14.6
7140	1:59:00	79.6	69.7	180.3	68.2	9.02	14.6
7155	1:59:15	79.7	69.8	180.0	67.7	9.03	14.6
7170	1:59:30	80.1	69.9	179.8	68.2	9.03	14.6
7185	1:59:45	79.9	69.8	180.4	68.2	9.03	14.6

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7200	2:00:00	79.4	69.8	180.7	68.7	9.04	14.7	
7215	2:00:15	79.3	69.8	181.1	68.2	9.03	14.7	
7230	2:00:30	79.4	69.8	180.1	68.2	9.03	14.6	
7245	2:00:45	78.9	69.8	180.1	67.2	9.01	14.6	
7260	2:01:00	79.1	69.8	180.5	67.2	9.01	14.5	
7275	2:01:15	78.6	69.7	181.8	67.2	9.02	14.5	
7290	2:01:30	78.9	69.7	181.3	67.2	9.02	14.5	
7305	2:01:45	78.3	69.9	181.8	67.2	9.01	14.5	
7320	2:02:00	78.5	69.8	181.8	67.2	9.01	14.5	
7335	2:02:15	79.0	69.8	181.8	66.6	9.00	14.5	
7350	2:02:30	79.3	69.8	180.3	67.2	9.00	14.5	
7365	2:02:45	79.6	69.9	180.6	67.2	9.00	14.5	
7380	2:03:00	80.0	69.8	180.0	67.2	9.00	14.5	
7395	2:03:15	80.2	69.9	180.2	67.2	9.01	14.5	
7410	2:03:30	79.0	69.9	180.4	67.2	9.01	14.5	
7425	2:03:45	79.0	70.0	179.9	67.7	9.02	14.5	
7440	2:04:00	78.3	69.9	181.3	67.2	9.02	14.5	
7455	2:04:15	78.6	69.7	181.3	67.2	9.01	14.6	
7470	2:04:30	78.9	69.7	181.1	66.9	9.01	14.5	
7485	2:04:45	78.2	69.8	179.9	66.6	9.01	14.5	
7500	2:05:00	78.2	69.8	181.1	67.2	9.02	14.5	
7515	2:05:15	78.1	70.0	180.1	67.7	9.02	14.5	
7530	2:05:30	78.4	70.0	179.9	67.7	9.02	14.6	
7545	2:05:45	78.9	69.9	180.1	67.7	9.02	14.6	
7560	2:06:00	79.0	70.0	180.7	68.2	9.02	14.6	Start Emissions
7575	2:06:15	78.9	69.9	180.3	68.2	9.02	14.6	
7590	2:06:30	80.1	69.8	181.7	68.2	9.03	14.6	
7605	2:06:45	79.9	69.8	181.3	68.8	9.03	14.6	
7620	2:07:00	80.0	69.9	180.1	68.5	9.03	14.6	1st Minute
7635	2:07:15	80.1	69.8	180.3	68.2	9.03	14.6	
7650	2:07:30	80.1	69.8	180.8	68.7	9.03	14.6	
7665	2:07:45	79.9	69.8	180.8	68.8	9.03	14.7	
7680	2:08:00	80.0	69.8	181.1	68.7	9.04	14.7	2nd Minute
7695	2:08:15	80.4	69.6	180.9	68.8	9.04	14.8	
7710	2:08:30	79.2	69.7	181.2	68.7	9.03	14.7	
7725	2:08:45	79.4	69.7	180.4	68.2	9.03	14.8	
7740	2:09:00	79.2	69.8	181.2	68.7	9.04	14.7	3rd Minute / EOT - High Fire - #3
7755	2:09:15	79.4	69.8	180.6	68.5	9.03	14.7	
7770	2:09:30	79.7	69.8	179.6	68.2	9.03	14.7	CO2 (Avg) % = 9.03
7785	2:09:45	79.7	69.8	180.3	68.2	9.03	14.7	NOx (Avg) ppm = 14.7
7800	2:10:00	79.3	69.8	180.2	68.2	9.02	14.6	CO (Max) ppm = 70.3
7815	2:10:15	79.3	69.9	180.0	68.8	9.03	14.6	Ambient (Avg) F = 79.2
7830	2:10:30	79.9	69.9	181.2	68.2	9.03	14.7	
7845	2:10:45	80.2	69.8	180.4	68.2	9.03	14.7	
7860	2:11:00	79.9	69.8	179.6	68.8	9.03	14.8	
7875	2:11:15	79.9	69.8	179.3	68.8	9.03	14.8	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7890 2:11:30	79.9	69.8	180.4	68.2	9.02	14.8	T_In (Avg) F = 69.6
7905 2:11:45	79.8	69.8	180.5	67.7	9.01	14.7	
7920 2:12:00	79.1	69.8	179.9	68.2	9.02	14.6	T_Del (Avg) F = 180.9
7935 2:12:15	79.4	69.8	180.1	67.7	9.01	14.6	
7950 2:12:30	79.6	69.9	180.6	67.7	9.01	14.6	
7965 2:12:45	79.6	69.8	180.1	67.7	9.03	14.6	
7980 2:13:00	79.8	69.8	179.8	68.2	9.03	14.6	
7995 2:13:15	79.1	69.9	180.6	68.2	9.03	14.6	
8010 2:13:30	79.1	69.8	181.3	68.0	9.02	14.6	
8025 2:13:45	78.6	69.9	180.0	68.2	9.02	14.7	
8040 2:14:00	78.6	69.9	180.1	68.2	9.02	14.7	
8055 2:14:15	78.6	69.8	180.6	67.7	9.01	14.7	
8070 2:14:30	79.0	70.0	179.3	68.2	9.02	14.6	
8085 2:14:45	78.7	69.8	180.7	68.2	9.03	14.7	
8100 2:15:00	79.4	69.7	179.6	68.8	9.03	14.7	
8115 2:15:15	80.1	69.8	167.4	56.8	9.05	14.7	
8130 2:15:30	80.2	69.7	156.3	45.3	9.09	15.0	
8145 2:15:45	80.6	69.2	156.1	43.7	9.09	15.6	
8160 2:16:00	80.7	69.0	165.5	43.2	9.09	16.2	
8175 2:16:15	80.1	69.3	173.1	42.1	9.09	16.3	
8190 2:16:30	79.9	70.4	176.5	41.6	9.09	16.0	
8205 2:16:45	80.0	70.8	178.6	41.6	9.09	16.0	
8220 2:17:00	79.9	71.2	179.2	41.6	9.09	16.0	
8235 2:17:15	80.0	71.3	180.3	41.1	9.09	16.0	
8250 2:17:30	80.3	71.7	179.3	41.1	9.09	15.9	
8265 2:17:45	79.7	71.6	179.3	41.1	9.09	15.9	
8280 2:18:00	78.9	71.7	180.8	41.1	9.09	15.9	
8295 2:18:15	78.6	71.6	179.0	41.1	9.10	15.9	
8310 2:18:30	78.2	71.6	179.6	41.1	9.09	16.0	
8325 2:18:45	78.7	71.6	181.4	41.1	9.09	16.0	
8340 2:19:00	79.1	71.7	180.1	41.1	9.09	15.9	
8355 2:19:15	79.6	71.8	179.9	41.1	9.09	15.9	
8370 2:19:30	79.6	71.9	181.2	41.6	9.09	16.0	
8385 2:19:45	80.0	71.8	180.5	41.1	9.09	16.0	
8400 2:20:00	79.0	71.8	180.2	41.1	9.09	16.1	
8415 2:20:15	79.0	71.9	181.0	41.1	9.09	16.1	
8430 2:20:30	79.0	72.0	180.4	40.5	9.08	16.1	
8445 2:20:45	78.4	72.1	180.2	40.5	9.07	16.0	
8460 2:21:00	78.4	72.1	180.1	40.5	9.08	15.9	
8475 2:21:15	79.8	72.1	180.4	40.5	9.08	15.8	
8490 2:21:30	80.1	72.1	181.0	40.5	9.08	15.9	
8505 2:21:45	80.6	72.1	180.9	40.5	9.07	15.9	
8520 2:22:00	80.5	72.2	180.3	40.0	9.07	15.9	
8535 2:22:15	80.4	72.1	179.9	40.0	9.07	15.9	
8550 2:22:30	80.3	72.2	180.6	40.0	9.07	16.0	
8565 2:22:45	79.8	72.2	180.1	40.0	9.07	16.0	
8580 2:23:00	79.9	72.3	181.0	40.0	9.06	15.9	
8595 2:23:15	79.6	72.1	181.6	38.9	9.05	15.9	

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
8610	2:23:30	79.3	72.0	180.4	38.4	9.04	15.5	Start Mid Fire Equilibrium - #3
8625	2:23:45	79.9	71.9	181.2	38.4	9.04	15.5	
8640	2:24:00	79.6	71.8	181.2	38.4	9.04	15.4	
8655	2:24:15	78.8	71.6	180.7	38.4	9.05	15.4	
8670	2:24:30	79.0	71.7	181.6	37.9	9.04	15.4	
8685	2:24:45	79.2	71.9	181.9	37.9	9.04	15.3	
8700	2:25:00	79.4	72.0	181.7	37.9	9.03	15.2	
8715	2:25:15	79.2	72.0	180.9	37.9	9.03	15.2	
8730	2:25:30	78.9	72.0	181.8	37.3	9.03	15.1	
8745	2:25:45	79.8	72.0	180.8	37.3	9.01	15.1	
8760	2:26:00	80.7	71.9	180.3	37.3	9.02	15.1	
8775	2:26:15	81.0	71.9	180.8	37.3	9.02	15.1	
8790	2:26:30	81.9	71.8	180.2	37.3	9.01	15.2	
8805	2:26:45	81.3	71.7	180.4	37.3	9.01	15.1	
8820	2:27:00	81.1	71.7	180.3	37.3	9.02	15.1	
8835	2:27:15	81.0	71.5	180.5	37.3	9.02	15.1	
8850	2:27:30	81.2	71.7	181.1	37.3	9.02	15.1	
8865	2:27:45	80.7	71.6	180.9	37.3	9.02	15.0	
8880	2:28:00	80.4	71.7	180.4	36.8	9.02	15.0	
8895	2:28:15	80.3	71.7	180.0	36.3	9.01	14.9	
8910	2:28:30	80.1	71.8	180.5	36.3	9.01	14.8	End Mid Fire Equilibrium - #3
8925	2:28:45	80.2	71.8	179.9	36.3	9.00	14.7	
8940	2:29:00	80.1	71.8	181.3	36.3	9.01	14.7	
8955	2:29:15	80.0	71.9	181.3	36.3	9.02	14.8	
8970	2:29:30	80.4	71.9	180.0	36.3	9.02	14.8	
8985	2:29:45	81.0	71.9	180.0	36.3	9.01	14.8	Start Test - Mid Fire - #3
9000	2:30:00	80.2	71.9	180.5	36.3	9.00	14.7	
9015	2:30:15	80.5	71.7	179.9	36.3	9.01	14.7	
9030	2:30:30	81.2	71.8	179.9	36.3	9.02	14.8	
9045	2:30:45	81.3	71.8	181.6	36.8	9.02	14.8	
9060	2:31:00	81.0	71.8	181.4	36.8	9.01	14.8	
9075	2:31:15	81.0	71.8	180.7	36.8	9.02	14.8	
9090	2:31:30	80.7	71.9	180.5	36.8	9.02	14.9	
9105	2:31:45	80.6	71.8	179.8	36.8	9.03	14.9	
9120	2:32:00	79.5	71.8	181.0	36.8	9.01	14.9	
9135	2:32:15	79.7	71.9	180.9	36.8	9.01	14.8	
9150	2:32:30	79.7	71.9	180.7	36.3	9.02	14.9	
9165	2:32:45	80.1	71.6	180.8	36.8	9.02	14.8	
9180	2:33:00	79.6	71.4	181.0	36.8	9.03	14.9	
9195	2:33:15	80.0	71.4	180.9	36.3	9.01	14.9	
9210	2:33:30	79.8	71.3	181.6	36.8	9.01	14.8	
9225	2:33:45	80.1	71.2	180.8	36.8	9.02	14.8	
9240	2:34:00	79.6	71.3	181.1	37.3	9.02	14.9	
9255	2:34:15	79.6	71.2	181.8	37.3	9.02	15.0	
9270	2:34:30	79.7	71.1	181.4	37.3	9.03	15.1	
9285	2:34:45	80.0	71.1	181.6	37.3	9.03	15.1	
9300	2:35:00	80.0	71.2	180.4	36.8	9.03	15.1	
9315	2:35:15	79.4	71.3	179.9	36.8	9.03	15.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
9330	2:35:30	78.7	71.2	180.0	36.8	9.03	15.1
9345	2:35:45	79.0	71.3	180.0	36.8	9.03	15.0
9360	2:36:00	79.1	71.3	179.6	36.8	9.02	15.0
9375	2:36:15	78.7	71.2	181.1	36.3	9.02	15.1
9390	2:36:30	79.6	71.4	179.5	36.3	9.02	15.1
9405	2:36:45	80.4	71.3	179.9	36.3	9.01	15.0
9420	2:37:00	80.7	71.2	179.3	36.8	9.02	15.0
9435	2:37:15	80.9	71.3	180.2	36.8	9.02	15.0
9450	2:37:30	80.8	71.4	181.8	36.8	9.02	15.1
9465	2:37:45	80.7	71.5	179.6	36.8	9.01	15.1
9480	2:38:00	80.1	71.6	180.6	36.8	9.01	15.1
9495	2:38:15	80.0	71.5	180.0	36.3	9.01	15.1
9510	2:38:30	79.8	71.6	179.3	36.8	9.01	15.1
9525	2:38:45	79.8	71.6	180.5	36.8	9.03	15.2
9540	2:39:00	80.0	71.5	179.4	36.8	9.03	15.3
9555	2:39:15	80.4	71.5	179.5	36.8	9.02	15.3
9570	2:39:30	80.1	71.4	179.7	36.8	9.02	15.2
9585	2:39:45	80.6	71.6	179.3	36.8	9.03	15.2
9600	2:40:00	81.0	71.5	181.8	36.8	9.03	15.2
9615	2:40:15	80.1	71.7	179.6	37.3	9.03	15.2
9630	2:40:30	79.8	71.7	181.1	36.8	9.02	15.2
9645	2:40:45	79.7	71.6	180.4	36.8	9.01	15.2
9660	2:41:00	79.7	71.7	181.7	36.8	9.02	15.1
9675	2:41:15	80.0	71.7	180.1	36.3	9.01	15.2
9690	2:41:30	79.9	71.7	181.0	36.8	9.01	15.1
9705	2:41:45	80.1	71.7	180.3	36.8	9.02	15.1
9720	2:42:00	80.0	71.6	181.6	36.8	9.00	15.1
9735	2:42:15	79.3	71.7	181.8	36.8	9.01	15.1
9750	2:42:30	78.6	71.6	181.3	36.8	9.01	15.1
9765	2:42:45	78.6	71.6	181.9	36.3	9.01	15.1
9780	2:43:00	78.6	71.6	181.8	36.8	9.01	15.1
9795	2:43:15	79.5	71.8	181.0	36.8	9.00	15.1
9810	2:43:30	79.2	71.9	181.5	36.8	9.00	15.1
9825	2:43:45	79.6	71.9	180.3	36.8	9.02	15.1
9840	2:44:00	80.1	71.9	180.4	36.8	9.01	15.1
9855	2:44:15	80.4	71.9	180.7	36.8	9.00	15.1
9870	2:44:30	80.3	71.9	181.5	36.8	9.01	15.1
9885	2:44:45	80.2	72.0	180.3	36.3	9.01	15.1
9900	2:45:00	79.7	71.9	181.0	36.8	9.01	15.2
9915	2:45:15	79.8	71.9	179.9	36.8	9.02	15.2
9930	2:45:30	79.8	71.9	180.9	36.8	9.03	15.3
9945	2:45:45	79.9	71.8	180.2	37.3	9.04	15.4
9960	2:46:00	80.2	71.9	180.8	37.9	9.05	15.5
9975	2:46:15	80.4	71.8	180.3	38.4	9.07	15.5
9990	2:46:30	80.5	71.8	181.3	38.9	9.07	15.7
10005	2:46:45	80.0	71.8	180.4	38.9	9.08	15.8
10020	2:47:00	79.7	71.7	181.1	39.5	9.10	15.9
10035	2:47:15	79.9	71.7	181.5	40.0	9.10	16.0

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10050	2:47:30	79.7	71.7	181.7	40.0	9.09	16.1	
10065	2:47:45	79.7	71.7	181.8	40.5	9.10	16.1	
10080	2:48:00	79.9	71.8	181.8	40.5	9.11	16.1	
10095	2:48:15	79.7	71.8	181.3	41.1	9.11	16.1	
10110	2:48:30	79.7	71.8	181.9	40.5	9.11	16.4	
10125	2:48:45	79.8	71.8	181.9	40.5	9.11	16.3	
10140	2:49:00	79.8	71.9	181.6	40.5	9.10	16.2	
10155	2:49:15	80.0	71.8	181.7	40.5	9.12	16.3	
10170	2:49:30	79.7	71.9	181.1	40.0	9.10	16.4	
10185	2:49:45	79.8	71.8	181.1	40.0	9.11	16.3	
10200	2:50:00	79.5	71.8	180.7	40.0	9.10	16.2	
10215	2:50:15	79.7	71.9	181.8	39.5	9.09	16.2	
10230	2:50:30	80.8	71.9	181.3	39.5	9.08	16.0	
10245	2:50:45	79.3	71.9	181.8	38.9	9.07	16.0	
10260	2:51:00	79.5	71.9	181.2	38.4	9.06	15.8	
10275	2:51:15	79.6	71.9	181.3	37.9	9.05	15.8	
10290	2:51:30	79.8	71.8	181.3	37.3	9.04	15.6	
10305	2:51:45	80.0	71.9	181.4	37.3	9.04	15.5	
10320	2:52:00	79.8	72.0	180.8	37.3	9.03	15.5	
10335	2:52:15	79.6	71.9	180.9	37.3	9.04	15.4	
10350	2:52:30	80.0	71.8	180.3	37.3	9.04	15.4	
10365	2:52:45	80.5	71.9	181.6	36.8	9.03	15.4	
10380	2:53:00	80.5	71.8	180.9	37.3	9.03	15.4	
10395	2:53:15	80.6	71.8	180.4	36.8	9.03	15.4	
10410	2:53:30	79.6	71.8	180.0	36.8	9.03	15.3	
10425	2:53:45	79.4	71.8	181.0	36.3	9.03	15.3	
10440	2:54:00	79.9	71.8	180.4	36.3	9.03	15.3	
10455	2:54:15	80.2	71.8	180.8	36.8	9.02	15.3	
10470	2:54:30	80.3	71.7	182.0	37.3	9.03	15.2	
10485	2:54:45	80.1	71.7	181.7	37.3	9.03	15.3	
10500	2:55:00	80.2	71.7	181.3	37.3	9.03	15.3	
10515	2:55:15	80.6	71.6	182.0	37.3	9.03	15.3	
10530	2:55:30	80.9	71.6	181.9	37.3	9.03	15.3	
10545	2:55:45	80.8	71.5	181.8	37.3	9.04	15.3	
10560	2:56:00	80.8	71.7	181.7	36.8	9.04	15.3	
10575	2:56:15	81.0	71.7	181.6	36.8	9.05	15.3	
10590	2:56:30	81.0	71.7	181.8	36.8	9.04	15.5	
10605	2:56:45	80.4	71.7	180.8	36.8	9.04	15.4	
10620	2:57:00	80.9	71.8	181.3	37.3	9.04	15.4	Start Emissions
10635	2:57:15	80.6	71.7	181.7	37.9	9.06	15.4	
10650	2:57:30	80.0	71.7	181.1	38.4	9.06	15.6	
10665	2:57:45	79.9	71.8	181.4	38.9	9.07	15.6	
10680	2:58:00	80.7	71.8	181.4	38.9	9.07	15.7	1st Minute
10695	2:58:15	81.3	71.8	181.2	38.9	9.08	15.7	
10710	2:58:30	80.6	71.7	181.9	39.5	9.08	15.9	
10725	2:58:45	80.6	71.8	181.8	39.5	9.08	15.9	
10740	2:59:00	79.7	71.7	181.7	39.5	9.08	15.9	2nd Minute

Manufacturer: RIELLO
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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10755	2:59:15	79.8	71.8	182.0	39.5	9.09	15.9	
10770	2:59:30	80.6	71.8	181.8	39.5	9.08	15.9	
10785	2:59:45	80.6	71.9	181.2	40.0	9.10	16.0	
10800	3:00:00	81.3	71.9	181.7	40.5	9.11	16.2	3rd Minute / EOT - Mid Fire - #3
10815	3:00:15	80.3	72.0	182.0	41.1	9.12	16.3	
10830	3:00:30	81.1	71.9	181.7	41.1	9.13	16.4	CO2 (Avg) % = 9.08
10845	3:00:45	80.8	72.0	181.8	41.6	9.13	16.4	NOx (Avg) ppm = 15.8
10860	3:01:00	80.5	72.0	181.8	41.6	9.14	16.5	CO (Max) ppm = 41.1
10875	3:01:15	80.3	72.0	181.7	41.6	9.13	16.7	Ambient (Avg) F = 80.0
10890	3:01:30	81.0	72.0	181.8	41.6	9.14	16.5	T_In (Avg) F = 71.7
10905	3:01:45	81.0	71.9	181.5	41.6	9.13	16.5	T_Del (Avg) F = 181.0
10920	3:02:00	80.5	72.0	181.8	41.6	9.13	16.5	
10935	3:02:15	80.9	72.0	181.9	41.1	9.12	16.5	
10950	3:02:30	80.9	72.0	181.5	41.1	9.13	16.4	
10965	3:02:45	81.1	71.8	181.4	41.1	9.13	16.5	
10980	3:03:00	80.6	71.8	182.0	41.1	9.13	16.5	
10995	3:03:15	80.2	71.8	181.7	41.1	9.12	16.4	
11010	3:03:30	80.2	71.8	181.8	41.1	9.11	16.4	
11025	3:03:45	80.2	71.6	181.5	40.5	9.11	16.4	
11040	3:04:00	80.5	71.6	181.7	40.5	9.11	16.4	
11055	3:04:15	80.5	71.6	182.0	40.5	9.10	16.4	
11070	3:04:30	81.0	71.5	181.7	40.0	9.10	16.4	
11085	3:04:45	80.5	71.6	180.9	40.0	9.10	16.3	
11100	3:05:00	80.6	71.5	181.0	40.0	9.11	16.3	
11115	3:05:15	80.7	71.5	181.5	39.5	9.10	16.3	
11130	3:05:30	80.9	71.6	181.8	39.5	9.10	16.2	
11145	3:05:45	80.8	71.5	181.6	39.5	9.09	16.2	
11160	3:06:00	80.6	71.4	180.7	39.5	9.09	16.2	
11175	3:06:15	80.8	71.4	174.3	37.9	7.73	16.1	
11190	3:06:30	80.7	71.5	143.2	1.1	0.37	16.0	
11205	3:06:45	80.7	71.5	117.0	0.0	0.17	9.4	
11220	3:07:00	81.0	71.3	101.6	0.0	0.13	2.6	
11235	3:07:15	80.8	71.2	92.3	0.0	0.11	2.5	
11250	3:07:30	80.7	71.1	86.2	0.0	0.20	2.2	
11265	3:07:45	80.7	71.1	82.1	0.0	0.01	1.2	
11280	3:08:00	81.1	70.9	79.2	0.0	0.00	0.2	
11295	3:08:15	80.8	70.7	77.5	0.0	0.00	0.1	
11310	3:08:30	80.7	70.6	76.2	0.0	0.00	0.1	
11325	3:08:45	80.8	70.4	75.6	0.0	0.00	0.1	
11340	3:09:00	81.5	70.3	75.0	0.0	0.00	0.1	Start Zero OUT
11355	3:09:15	81.5	70.2	74.7	0.0	0.00	0.1	
11370	3:09:30	81.1	70.1	74.4	0.0	0.00	0.1	
11385	3:09:45	81.7	69.9	74.1	0.0	0.00	0.1	
11400	3:10:00	82.9	69.8	73.9	0.0	0.00	0.1	
11415	3:10:15	82.5	69.6	73.6	0.0	0.00	0.1	
11430	3:10:30	82.6	69.4	73.3	0.0	0.00	0.1	
11445	3:10:45	83.0	69.2	73.2	0.0	0.00	0.1	

Manufacturer: RIELLO
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Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
11460	3:11:00	82.1	68.9	72.9	0.0	0.00	0.1	
11475	3:11:15	82.1	68.8	72.7	0.0	0.00	0.1	
11490	3:11:30	81.5	68.6	72.5	0.0	0.00	0.0	
11505	3:11:45	81.3	68.5	72.3	0.0	0.00	0.0	
11520	3:12:00	81.4	68.3	72.2	0.0	0.00	0.0	
11535	3:12:15	80.1	68.2	71.9	0.0	0.00	0.0	
11550	3:12:30	79.9	68.0	71.8	0.0	0.00	0.0	
11565	3:12:45	79.5	67.9	71.6	0.0	0.00	0.0	
11580	3:13:00	79.7	67.9	71.4	0.0	0.00	0.0	
11595	3:13:15	79.4	67.8	71.1	0.0	0.00	0.0	
11610	3:13:30	79.8	67.6	70.9	0.0	0.00	0.0	
11625	3:13:45	80.1	67.6	70.7	0.0	0.00	0.0	
11640	3:14:00	80.4	67.5	70.5	0.0	0.00	0.0	Analyzer Zero OUT
11655	3:14:15	80.5	67.3	70.3	0.0	0.00	0.0	
11670	3:14:30	80.7	67.2	70.1	321.7	1.81	0.0	
11685	3:14:45	80.2	67.1	69.9	892.6	9.26	1.3	
11700	3:15:00	80.0	67.1	69.8	954.5	9.45	14.6	
11715	3:15:15	79.6	67.0	69.6	962.5	9.48	26.5	
11730	3:15:30	79.3	66.9	69.5	965.1	9.49	26.5	
11745	3:15:45	79.4	66.9	69.4	966.2	9.49	26.4	
11760	3:16:00	79.3	66.8	69.2	966.7	9.49	26.4	
11775	3:16:15	79.6	66.7	69.1	966.7	9.49	26.4	
11790	3:16:30	79.6	66.7	68.9	967.3	9.49	26.4	
11805	3:16:45	79.5	66.7	68.9	967.3	9.50	26.4	
11820	3:17:00	79.2	66.6	68.7	967.3	9.50	26.4	Start High Span OUT
11835	3:17:15	79.1	66.7	68.6	967.3	9.50	26.4	
11850	3:17:30	79.5	66.5	68.5	967.5	9.50	26.4	
11865	3:17:45	81.0	66.5	68.4	967.8	9.50	26.4	
11880	3:18:00	80.2	66.5	68.3	967.8	9.50	26.4	
11895	3:18:15	80.0	66.5	68.3	967.8	9.50	26.4	
11910	3:18:30	80.4	66.5	68.2	967.8	9.50	26.4	
11925	3:18:45	80.2	66.4	68.1	967.8	9.50	26.4	
11940	3:19:00	80.2	66.4	68.1	967.8	9.50	26.4	
11955	3:19:15	80.7	66.3	68.0	968.3	9.50	26.4	
11970	3:19:30	81.2	66.3	67.9	968.3	9.50	26.4	
11985	3:19:45	81.1	66.3	68.0	968.3	9.50	26.4	
12000	3:20:00	80.9	66.3	67.9	967.8	9.50	26.4	
12015	3:20:15	81.2	66.3	67.9	967.8	9.50	26.4	
12030	3:20:30	81.2	66.3	67.8	967.8	9.51	26.4	
12045	3:20:45	80.6	66.3	67.9	968.3	9.50	26.4	
12060	3:21:00	81.0	66.3	67.9	968.3	9.50	26.4	
12075	3:21:15	81.8	66.3	68.1	967.8	9.50	26.4	
12090	3:21:30	81.3	66.3	68.3	967.8	9.50	26.4	
12105	3:21:45	81.5	66.4	68.4	967.8	9.50	26.4	
12120	3:22:00	81.4	66.5	68.5	967.8	9.50	26.4	Analyzer High Span OUT
12135	3:22:15	80.7	66.6	68.6	967.8	9.50	26.4	
12150	3:22:30	80.4	66.7	68.8	963.6	9.50	26.4	
12165	3:22:45	79.7	66.9	68.9	578.2	5.34	26.3	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12180	3:23:00	79.7	67.0	69.0	505.2	5.04	20.4	
12195	3:23:15	79.4	67.1	69.2	498.3	5.01	14.7	
12210	3:23:30	79.6	67.3	69.3	496.7	5.01	14.6	
12225	3:23:45	79.7	67.4	69.4	496.2	5.01	14.6	
12240	3:24:00	80.1	67.4	69.5	495.6	5.01	14.6	
12255	3:24:15	80.0	67.5	69.5	495.6	5.01	14.6	
12270	3:24:30	79.5	67.6	69.7	496.2	5.01	14.6	
12285	3:24:45	79.7	67.7	69.8	495.6	5.01	14.6	
12300	3:25:00	79.9	67.7	69.9	495.6	5.01	14.6	Start Mid Span OUT
12315	3:25:15	79.8	67.8	70.0	496.2	5.01	14.6	
12330	3:25:30	80.1	67.8	70.1	496.2	5.01	14.6	
12345	3:25:45	79.9	68.0	70.2	495.6	5.01	14.6	
12360	3:26:00	79.7	68.0	70.3	495.6	5.01	14.6	
12375	3:26:15	80.2	68.1	70.5	496.2	5.01	14.6	
12390	3:26:30	80.0	68.2	70.5	496.2	5.01	14.6	
12405	3:26:45	80.3	68.3	70.7	496.2	5.01	14.6	
12420	3:27:00	80.3	68.3	70.8	496.2	5.01	14.6	
12435	3:27:15	80.2	68.4	70.8	496.2	5.01	14.6	
12450	3:27:30	80.8	68.5	71.0	496.2	5.00	14.6	
12465	3:27:45	80.5	68.5	71.1	496.2	5.00	14.6	
12480	3:28:00	80.2	68.5	71.1	496.2	5.00	14.6	
12495	3:28:15	80.1	68.6	71.3	495.6	5.00	14.6	
12510	3:28:30	80.3	68.6	71.3	496.2	5.00	14.6	
12525	3:28:45	80.7	68.7	71.5	496.2	5.00	14.6	
12540	3:29:00	81.5	68.8	71.4	496.2	5.00	14.6	
12555	3:29:15	81.1	68.8	71.6	496.2	5.00	14.6	
12570	3:29:30	81.1	68.8	71.6	495.6	5.00	14.6	
12585	3:29:45	81.0	68.9	71.8	496.2	5.00	14.6	
12600	3:30:00	81.3	69.0	71.9	495.9	5.00	14.6	Analyzer Mid Span OUT
12615	3:30:15	80.9	69.0	71.9	495.7	5.00	14.6	
12630	3:30:30	81.4	69.0	72.0	495.6	5.00	14.6	
12645	3:30:45	81.0	69.1	72.1	495.6	5.00	12.7	
12660	3:31:00	80.9	69.1	72.2	492.9	5.01	11.5	
12675	3:31:15	81.6	69.2	72.3	283.5	2.77	12.2	
12690	3:31:30	81.3	69.3	72.5	243.9	2.59	8.4	
12705	3:31:45	81.2	69.4	72.5	239.1	2.57	7.7	
12720	3:32:00	81.1	69.4	72.5	237.5	2.57	7.0	
12735	3:32:15	81.1	69.4	72.7	237.5	2.57	7.0	
12750	3:32:30	81.2	69.5	72.8	236.9	2.57	7.0	
12765	3:32:45	81.1	69.5	72.7	237.0	2.57	7.0	
12780	3:33:00	81.2	69.6	72.9	236.9	2.57	7.0	Start Low Span OUT
12795	3:33:15	81.3	69.6	72.9	236.9	2.57	7.0	
12810	3:33:30	81.1	69.7	73.0	237.0	2.57	7.0	
12825	3:33:45	81.1	69.6	73.0	236.9	2.57	7.0	
12840	3:34:00	81.6	69.7	73.1	236.9	2.57	7.0	
12855	3:34:15	81.3	69.7	73.1	237.0	2.57	6.9	
12870	3:34:30	81.9	69.7	73.2	236.9	2.57	6.9	
12885	3:34:45	81.4	69.8	73.3	237.0	2.57	6.9	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12900	3:35:00	81.4	69.7	73.3	237.0	2.57	6.9	
12915	3:35:15	81.3	69.8	73.4	237.0	2.57	6.9	
12930	3:35:30	81.6	69.9	73.5	237.0	2.57	6.9	
12945	3:35:45	81.5	69.9	73.5	236.9	2.57	6.9	
12960	3:36:00	81.7	69.9	73.6	237.0	2.57	6.9	
12975	3:36:15	81.8	69.9	73.7	237.0	2.57	6.9	
12990	3:36:30	82.0	70.0	73.7	237.0	2.57	6.9	
13005	3:36:45	81.5	70.0	73.7	237.0	2.57	6.9	
13020	3:37:00	81.4	70.0	73.8	237.0	2.57	6.9	
13035	3:37:15	81.7	70.1	73.9	237.0	2.57	6.9	
13050	3:37:30	81.4	70.2	74.0	237.0	2.57	6.9	
13065	3:37:45	81.3	70.2	74.0	237.5	2.57	6.9	
13080	3:38:00	80.9	70.2	74.1	237.5	2.57	6.9	Analyzer Low Span OUT
13095	3:38:15	81.3	70.3	74.2	237.0	2.57	6.9	
13110	3:38:30	81.3	70.3	74.2	237.0	2.57	6.9	
13125	3:38:45	81.8	70.3	74.3	237.0	2.57	6.9	
13140	3:39:00	81.3	70.4	74.3	237.0	2.57	6.2	
13155	3:39:15	80.9	70.4	74.4	237.5	2.57	5.6	
13170	3:39:30	81.0	70.4	74.5	51.4	0.51	7.2	
13185	3:39:45	82.3	70.5	74.5	0.6	0.03	4.2	
13200	3:40:00	81.8	70.5	74.6	0.0	0.00	1.2	
13215	3:40:15	81.4	70.6	74.5	0.0	0.00	1.2	
13230	3:40:30	81.6	70.6	74.6	0.0	0.00	1.1	
13245	3:40:45	81.7	70.7	74.7	0.0	0.00	1.1	
13260	3:41:00	81.6	70.7	74.8	0.0	0.00	1.0	Start Zero Bias OUT
13275	3:41:15	81.9	70.7	74.8	0.0	0.00	1.0	
13290	3:41:30	81.6	70.8	74.9	0.0	0.00	0.9	
13305	3:41:45	81.3	70.8	75.0	0.0	0.00	0.9	
13320	3:42:00	81.3	70.8	74.9	0.0	0.00	0.8	
13335	3:42:15	81.1	70.8	74.9	0.0	0.00	0.8	
13350	3:42:30	80.8	70.9	75.1	0.0	0.00	0.7	
13365	3:42:45	80.8	70.9	75.1	0.0	0.00	0.7	
13380	3:43:00	80.9	70.9	75.1	0.0	0.00	0.7	
13395	3:43:15	80.9	71.0	75.2	0.0	0.00	0.6	
13410	3:43:30	80.6	71.0	75.2	0.0	0.00	0.6	
13425	3:43:45	80.5	71.0	75.3	0.0	0.00	0.6	
13440	3:44:00	81.7	71.1	75.3	0.0	0.00	0.5	
13455	3:44:15	81.6	71.1	75.4	0.0	0.00	0.5	
13470	3:44:30	81.5	71.2	75.5	0.0	0.00	0.5	
13485	3:44:45	81.7	71.3	75.5	0.0	0.00	0.4	
13500	3:45:00	82.3	71.3	75.5	0.0	0.00	0.4	
13515	3:45:15	81.6	71.4	75.6	0.0	0.00	0.4	
13530	3:45:30	80.6	71.4	75.7	0.0	0.00	0.4	
13545	3:45:45	80.5	71.4	75.7	0.0	0.00	0.3	
13560	3:46:00	80.5	71.5	75.8	0.0	0.00	0.3	System Zero OUT
13575	3:46:15	80.4	71.5	75.8	0.0	0.00	0.3	
13590	3:46:30	80.2	71.6	75.8	0.0	0.00	0.3	
13605	3:46:45	80.6	71.7	75.9	0.0	0.00	0.3	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13620	3:47:00	80.6	71.7	75.9	0.0	0.01	0.3	
13635	3:47:15	81.5	71.8	76.0	180.2	1.21	0.3	
13650	3:47:30	81.3	71.8	76.0	446.3	4.77	0.2	
13665	3:47:45	80.8	71.8	76.1	477.5	4.92	0.2	
13680	3:48:00	81.4	71.8	76.1	483.4	4.96	0.2	
13695	3:48:15	81.4	71.9	76.2	485.5	4.97	0.2	
13710	3:48:30	81.6	72.0	76.2	486.6	4.98	0.2	
13725	3:48:45	81.8	71.9	76.2	486.6	4.98	0.2	
13740	3:49:00	81.9	72.0	76.2	487.1	4.98	0.2	Start Mid CO/CO2 Bias OUT
13755	3:49:15	81.8	72.0	76.3	486.9	4.98	0.2	
13770	3:49:30	81.1	72.0	76.4	487.1	4.98	0.2	
13785	3:49:45	80.8	72.1	76.4	487.1	4.99	0.2	
13800	3:50:00	81.4	72.1	76.4	487.1	4.99	0.2	
13815	3:50:15	81.1	72.2	76.4	487.1	4.99	0.2	
13830	3:50:30	80.9	72.1	76.5	487.1	4.99	0.2	
13845	3:50:45	80.9	72.2	76.5	487.1	4.99	0.2	
13860	3:51:00	81.3	72.3	76.6	487.1	4.99	0.2	
13875	3:51:15	80.7	72.3	76.6	487.1	4.99	0.2	
13890	3:51:30	80.3	72.4	76.6	487.1	4.99	0.2	
13905	3:51:45	80.2	72.3	76.7	487.1	4.99	0.2	
13920	3:52:00	81.2	72.4	76.7	487.1	4.99	0.2	
13935	3:52:15	80.9	72.4	76.7	487.1	4.99	0.2	
13950	3:52:30	80.8	72.5	76.8	487.1	4.99	0.1	
13965	3:52:45	81.1	72.5	76.9	487.6	4.99	0.1	
13980	3:53:00	81.1	72.6	76.8	487.7	4.99	0.1	
13995	3:53:15	81.1	72.6	76.9	487.6	4.99	0.1	
14010	3:53:30	81.5	72.6	77.0	487.7	4.99	0.1	
14025	3:53:45	81.5	72.7	77.0	487.7	4.99	0.1	
14040	3:54:00	81.8	72.7	77.0	487.7	4.99	0.1	System Mid CO/CO2 OUT
14055	3:54:15	81.7	72.7	77.0	487.6	4.99	0.1	
14070	3:54:30	81.8	72.7	77.1	487.6	4.99	0.1	
14085	3:54:45	82.3	72.8	77.1	487.7	4.99	0.1	
14100	3:55:00	82.6	72.8	77.1	390.0	4.87	0.1	
14115	3:55:15	82.2	72.8	77.2	65.6	0.42	0.1	
14130	3:55:30	81.6	72.9	77.2	174.8	2.06	0.1	
14145	3:55:45	81.8	72.9	77.2	223.7	2.53	0.1	
14160	3:56:00	81.4	72.9	77.2	230.0	2.56	0.1	
14175	3:56:15	81.8	72.9	77.3	232.1	2.57	0.1	
14190	3:56:30	83.1	72.9	77.3	232.2	2.57	0.1	
14205	3:56:45	82.0	73.0	77.3	232.7	2.57	0.1	
14220	3:57:00	82.0	72.9	77.3	232.5	2.57	0.1	Start Low CO/CO2 Bias OUT
14235	3:57:15	81.8	73.0	77.4	232.2	2.57	0.1	
14250	3:57:30	81.4	73.0	77.4	232.7	2.57	0.1	
14265	3:57:45	81.7	73.0	77.4	232.2	2.57	0.1	
14280	3:58:00	81.8	73.1	77.5	232.2	2.57	0.1	
14295	3:58:15	81.7	73.1	77.5	232.2	2.57	0.1	
14310	3:58:30	82.0	73.0	77.4	232.7	2.57	0.1	
14325	3:58:45	81.7	73.2	77.5	232.2	2.57	0.1	

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Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14340	3:59:00	82.0	73.1	77.6	232.2	2.57	0.1	
14355	3:59:15	81.7	73.1	77.5	232.2	2.57	0.1	
14370	3:59:30	81.7	73.2	77.6	232.2	2.57	0.1	
14385	3:59:45	81.9	73.2	77.7	232.2	2.57	0.1	
14400	4:00:00	81.5	73.2	77.7	232.2	2.57	0.1	
14415	4:00:15	82.0	73.2	77.7	232.2	2.57	0.1	
14430	4:00:30	81.7	73.2	77.7	232.2	2.57	0.1	
14445	4:00:45	81.2	73.3	77.7	232.2	2.57	0.1	
14460	4:01:00	82.2	73.3	77.8	232.2	2.57	0.1	
14475	4:01:15	81.3	73.3	77.7	232.7	2.57	0.1	
14490	4:01:30	81.5	73.3	77.8	232.7	2.57	0.1	
14505	4:01:45	82.0	73.5	77.9	232.7	2.57	0.1	
14520	4:02:00	81.6	73.5	77.9	232.7	2.57	0.1	System Low CO/CO2 OUT
14535	4:02:15	81.8	73.5	77.9	232.7	2.57	0.1	
14550	4:02:30	81.5	73.4	77.9	232.4	2.57	0.1	
14565	4:02:45	81.8	73.4	77.9	226.4	2.57	0.1	
14580	4:03:00	82.0	73.4	78.0	45.3	0.52	0.1	
14595	4:03:15	81.6	73.4	78.0	10.2	0.43	0.1	
14610	4:03:30	81.5	73.4	78.0	6.5	0.42	8.4	
14625	4:03:45	81.9	73.5	78.0	4.9	0.42	11.3	
14640	4:04:00	82.0	73.6	78.1	4.9	0.42	14.2	
14655	4:04:15	82.2	73.6	78.0	4.9	0.42	14.3	
14670	4:04:30	82.0	73.5	78.1	4.9	0.42	14.3	
14685	4:04:45	81.4	73.6	78.1	4.9	0.43	14.3	
14700	4:05:00	82.5	73.7	78.2	4.9	0.43	14.3	Start Mid NOx Bias OUT
14715	4:05:15	82.4	73.6	78.1	4.9	0.43	14.3	
14730	4:05:30	82.3	73.6	78.1	4.9	0.43	14.3	
14745	4:05:45	81.7	73.6	78.2	4.9	0.43	14.3	
14760	4:06:00	82.3	73.6	78.2	4.9	0.44	14.3	
14775	4:06:15	81.8	73.7	78.2	4.9	0.43	14.3	
14790	4:06:30	81.8	73.6	78.2	4.9	0.44	14.4	
14805	4:06:45	82.5	73.6	78.2	4.9	0.43	14.4	
14820	4:07:00	81.8	73.6	78.2	4.9	0.44	14.4	
14835	4:07:15	81.7	73.7	78.2	4.9	0.44	14.3	
14850	4:07:30	82.0	73.7	78.2	4.9	0.44	14.3	
14865	4:07:45	81.8	73.7	78.3	4.9	0.44	14.4	
14880	4:08:00	81.8	73.6	78.2	5.4	0.44	14.4	
14895	4:08:15	81.8	73.7	78.3	4.9	0.45	14.4	
14910	4:08:30	82.0	73.7	78.3	4.9	0.45	14.4	
14925	4:08:45	81.4	73.7	78.4	5.4	0.45	14.3	
14940	4:09:00	82.4	73.8	78.4	4.9	0.45	14.3	
14955	4:09:15	82.0	73.8	78.4	5.4	0.45	14.4	
14970	4:09:30	82.5	73.8	78.4	5.4	0.45	14.4	
14985	4:09:45	82.7	73.8	78.4	5.2	0.45	14.4	
15000	4:10:00	82.1	73.8	78.4	4.9	0.46	14.4	System Mid NOx OUT
15015	4:10:15	81.9	73.9	78.5	4.9	0.46	14.4	
15030	4:10:30	82.4	73.9	78.5	4.9	0.46	14.4	
15045	4:10:45	82.0	73.9	78.5	4.9	0.46	14.4	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 18, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15060	4:11:00	83.1	73.9	78.5	4.9	0.46	14.4	
15075	4:11:15	82.5	73.9	78.5	4.9	0.46	14.4	
15090	4:11:30	82.1	73.9	78.6	4.9	0.46	14.3	
15105	4:11:45	82.1	73.9	78.6	4.9	0.46	14.3	
15120	4:12:00	82.0	74.0	78.7	5.4	0.46	9.5	
15135	4:12:15	82.0	74.0	78.7	5.4	0.47	4.7	
15150	4:12:30	81.9	74.0	78.7	4.9	0.47	0.6	
15165	4:12:45	81.9	74.0	78.7	4.9	0.47	3.7	
15180	4:13:00	82.4	74.1	78.7	5.4	0.47	6.8	Start Low NOx Bias OUT
15195	4:13:15	82.5	74.1	78.7	5.4	0.47	6.8	
15210	4:13:30	82.4	74.1	78.7	5.4	0.47	6.8	
15225	4:13:45	82.8	74.0	78.8	5.4	0.47	6.8	
15240	4:14:00	82.6	74.1	78.8	5.4	0.47	6.9	
15255	4:14:15	83.0	74.1	78.8	5.4	0.47	6.9	
15270	4:14:30	83.0	74.1	78.8	5.4	0.47	6.8	
15285	4:14:45	82.6	74.1	78.8	5.4	0.47	6.8	
15300	4:15:00	82.9	74.1	78.8	5.4	0.48	6.9	
15315	4:15:15	82.6	74.1	78.8	5.4	0.48	6.9	
15330	4:15:30	83.0	74.1	78.8	5.4	0.48	6.8	
15345	4:15:45	82.1	74.1	78.8	5.4	0.48	6.9	
15360	4:16:00	83.1	74.1	78.9	5.4	0.48	6.9	
15375	4:16:15	82.0	74.1	78.9	5.4	0.48	6.8	
15390	4:16:30	82.0	74.2	79.0	5.4	0.48	6.9	
15405	4:16:45	82.6	74.2	78.9	5.4	0.48	6.9	
15420	4:17:00	82.9	74.2	79.0	5.4	0.48	6.9	
15435	4:17:15	82.3	74.2	79.0	5.4	0.48	6.9	
15450	4:17:30	83.2	74.3	79.0	5.9	0.48	6.9	
15465	4:17:45	82.0	74.3	79.0	5.4	0.48	6.9	
15480	4:18:00	81.8	74.2	79.0	5.4	0.48	6.9	System Low NOx OUT
15495	4:18:15	82.3	74.2	79.0	5.4	0.48	6.9	
15510	4:18:30	82.8	74.3	79.0	5.4	0.48	6.9	
15525	4:18:45	82.8	74.3	79.1	5.4	0.49	6.8	
15540	4:19:00	82.0	74.3	79.1	5.4	0.49	6.8	
Average =		79.5						

APPENDIX H

Test Results for:

SSB255

Low Run#: 1, 2, & 3

Date: June 19, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Minimum Rate

Input Rate = 51,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	76.2	80.1	°F
Relative Humidity	58	58	%
Barometer	29.01	29.01	in.Hg
Heating Value	1091	1091	BTU/ft ³
Inlet Pressure	7.3	7.3	in.w.c.
Manifold Pressure	0.2	0.2	in.w.c.
Gas Meter Reading	2452.54	2476.78	ft ³
Gas Temperature	74.0	74.0	°F
Water Meter Reading	688987.1	689070.4	gal

Mass	681.8	lb
Di	8.185	lb/gal
Dn	8.142	lb/gal

Tin	147.9	°F
Tdel	179.8	°F

Calculations		
Test Start	4:13:00	h:mm:ss
Test End	4:43:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	50,728	BTU/hr
Cf	1.102	no units
Ho	21,707	BTU
Uncorrected Volume	24.24	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.974	no units
F	23.25	ft ³
C	6.7	%
P	1.5	ppm

N = 1.4 ng/J
2.3 ppm @ 3% O₂

Date: June 19, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Minimum Rate

Input Rate = 51,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	81.0	83.3	°F
Relative Humidity	58	58	%
Barometer	29.01	29.01	in.Hg
Heating Value	1091	1091	BTU/ft ³
Inlet Pressure	7.3	7.3	in.w.c.
Manifold Pressure	0.2	0.2	in.w.c.
Gas Meter Reading	2545.79	2571.08	ft ³
Gas Temperature	83.0	83.0	°F
Water Meter Reading	689365.4	689449.5	gal

Mass	688.5	lb
Di	8.187	lb/gal
Dn	8.143	lb/gal

Tin	147.2	°F
Tdel	180.3	°F

Calculations		
Test Start	6:23:00	h:mm:ss
Test End	6:53:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	52,048	BTU/hr
Cf	1.102	no units
Ho	22,745	BTU
Uncorrected Volume	25.29	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.958	no units
F	23.85	ft ³
C	7.1	%
P	2.3	ppm

N = 2.0 ng/J
3.3 ppm @ 3% O₂

Date: June 19, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 255

Serial No.: NONE

Minimum Rate

Input Rate = 51,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	81.9	78.8	°F
Relative Humidity	58	58	%
Barometer	28.99	28.99	in.Hg
Heating Value	1092	1092	BTU/ft ³
Inlet Pressure	7.3	7.3	in.w.c.
Manifold Pressure	0.2	0.2	in.w.c.
Gas Meter Reading	2631.32	2656.37	ft ³
Gas Temperature	82.0	82.0	°F
Water Meter Reading	689694.8	689774.7	gal

Mass	654.1	lb
Di	8.187	lb/gal
Dn	8.142	lb/gal

Tin	147.4	°F
Tdel	180.7	°F

Calculations		
Test Start	8:22:00	h:mm:ss
Test End	8:52:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	51,661	BTU/hr
Cf	1.103	no units
Ho	21,738	BTU
Uncorrected Volume	25.05	ft ³
Pressure Correction	0.984	no units
Meter Correction	1.000	no units
Temperature Correction	0.959	no units
F	23.65	ft ³
C	7.3	%
P	2.8	ppm

N = 2.4 ng/J
3.9 ppm @ 3% O₂

Date: June 19, 2015

Low Run#: 1, 2, & 3

Manufacturer: RIELLO
Model No.: SSB 255
Serial No.: NONE

Analytic Ranges

NOx = 30 ppm
CO2 = 10 %
CO = 1000 ppm

Pretest Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)	
NOx Zero	0	0.00			0.00	0.10			-0.33
NOx Low	6.95	6.93			0.07	6.76			0.63
NOx Mid	14.56	14.55			0.03	14.23			1.10
NOx High	26.66	26.72			-0.20				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24
CO2 Mid	5.007		5.01		-0.03		5.00		0.07
CO2 High	9.488		9.50		-0.12				
CO Zero	0			0	0.00			0	0.00
CO Low	249.0			241	0.78			237	1.20
CO Mid	502.5			501	0.15			493	0.95
CO High	976			975	0.07				

Post Test Calibration

Analyzer and System Calibration Data - (Fig. 100.1-4 and 100.1-5)

	Cylinder Value	ANALYZER RESPONSE			Analyzer Cal. Error (% of Range)	SYSTEM RESPONSE			System Bias (% of Range)	System Drift (% of Range)
		NOx (ppm)	CO2 (%)	CO (ppm)		NOx (ppm)	CO2 (%)	CO (ppm)		
NOx Zero	0	0.01			-0.03	0.16			-0.53	0.20
NOx Low	6.95	6.79			0.53	6.67			0.93	-0.30
NOx Mid	14.56	14.36			0.67	14.05			1.70	-0.60
NOx High	26.66	26.39			0.90					
CO2 Zero	0		0.00		0.00		0.00		0.00	0.00
CO2 Low	2.594		2.57		0.24		2.57		0.24	0.00
CO2 Mid	5.007		5.00		0.07		4.99		0.17	-0.10
CO2 High	9.488		9.49		-0.02					
CO Zero	0			0	0.00			0.0	0.00	0.00
CO Low	249.0			236	1.31			230	1.90	-0.70
CO Mid	502.5			492	1.01			484	1.81	-0.86
CO High	976			962	1.42					

Calibration Linearity

NOx Pretest	0.143
CO2 Pretest	0.033
CO Pretest	0.113

NOx Post Test	0.157
CO2 Post Test	0.081
CO Post Test	0.280

Gas Cylinders

Cylinder #	Concentration
EB0018049	Low NOX = 6.95 ppm
CC100400	Mid NOX = 14.56 ppm
CC267435	High NOX = 26.66 ppm
CC129082	CO2 Low = 2.594 %
	CO Low = 249 ppm
CC25693	CO2 Mid = 5.007 %
	CO Mid = 502.5 ppm
CC353963	CO2 High = 9.488 %
	CO High = 976 ppm

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	72.9	71.7	72.0	2.3	0.03	0.0	
15	0:00:15	72.5	71.5	71.8	1.7	0.00	0.0	
30	0:00:30	72.7	71.5	71.9	1.2	0.00	0.0	
45	0:00:45	71.8	71.5	71.9	1.2	0.00	0.0	
60	0:01:00	71.6	71.5	71.9	1.2	0.00	0.0	Start Zero IN
75	0:01:15	71.9	71.8	72.0	1.2	0.00	0.0	
90	0:01:30	71.4	71.9	71.9	0.0	0.00	0.0	
105	0:01:45	71.3	72.0	72.5	0.0	0.00	0.0	
120	0:02:00	71.2	72.0	72.3	0.0	0.00	0.0	
135	0:02:15	70.6	72.1	72.2	0.0	0.00	0.0	
150	0:02:30	70.5	72.0	72.2	0.0	0.00	0.0	
165	0:02:45	70.9	72.0	72.2	0.0	0.00	0.0	
180	0:03:00	72.0	71.5	92.1	0.0	0.00	0.0	
195	0:03:15	71.8	71.7	93.2	0.0	0.00	0.0	
210	0:03:30	71.7	71.9	93.2	0.0	0.00	0.0	
225	0:03:45	71.8	72.0	92.3	0.0	0.00	0.0	
240	0:04:00	72.6	72.1	91.4	0.0	0.00	0.0	
255	0:04:15	73.4	72.3	90.3	0.0	0.00	0.0	
270	0:04:30	73.8	72.4	90.0	0.0	0.00	0.0	
285	0:04:45	73.8	72.7	94.4	0.0	0.00	0.0	
300	0:05:00	74.2	73.6	107.3	0.0	0.00	0.0	
315	0:05:15	75.2	74.8	124.6	0.0	0.00	0.0	
330	0:05:30	76.2	76.1	142.2	0.0	0.00	0.0	
345	0:05:45	75.4	77.3	153.8	0.0	0.00	0.0	
360	0:06:00	74.8	78.5	159.0	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	74.8	79.3	160.5	0.0	0.00	0.0	
390	0:06:30	75.2	80.0	161.0	0.0	0.00	0.0	
405	0:06:45	75.2	80.6	160.4	683.3	7.38	0.0	
420	0:07:00	74.8	82.0	159.3	948.1	9.36	0.6	
435	0:07:15	74.9	84.8	158.3	969.4	9.46	13.1	
450	0:07:30	74.7	88.8	156.7	974.2	9.48	25.9	
465	0:07:45	74.7	93.5	154.4	975.8	9.48	26.2	
480	0:08:00	74.6	98.2	153.1	976.4	9.49	26.6	
495	0:08:15	74.8	102.2	151.3	976.9	9.49	26.7	
510	0:08:30	76.4	105.4	149.9	976.9	9.49	26.8	
525	0:08:45	76.0	108.2	147.3	977.4	9.50	26.8	
540	0:09:00	76.0	110.3	145.6	976.9	9.50	26.9	Start High Span IN
555	0:09:15	75.5	111.8	143.9	977.4	9.50	26.9	
570	0:09:30	75.6	112.9	142.5	977.4	9.50	26.7	
585	0:09:45	75.9	113.8	141.8	978.5	10.51	26.7	
600	0:10:00	76.1	114.2	140.2	975.3	9.50	26.8	
615	0:10:15	76.4	114.5	139.4	974.8	9.49	26.8	
630	0:10:30	76.0	114.5	140.1	974.8	9.50	26.8	
645	0:10:45	75.9	114.3	140.9	975.3	9.50	26.8	
660	0:11:00	76.0	114.0	142.6	975.3	9.50	26.8	
675	0:11:15	76.2	113.7	144.1	974.8	9.49	26.7	
690	0:11:30	76.3	113.2	146.1	974.8	9.50	26.7	
705	0:11:45	75.9	112.7	148.0	975.3	9.50	26.7	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	75.4	112.3	150.4	975.3	9.50	26.7	
735	0:12:15	75.6	111.9	152.0	975.3	9.50	26.7	
750	0:12:30	75.5	111.6	154.0	975.3	9.50	26.7	
765	0:12:45	74.9	111.5	155.5	975.3	9.50	26.7	
780	0:13:00	75.0	111.6	156.8	975.3	9.50	26.7	
795	0:13:15	75.3	111.8	157.6	975.3	9.50	26.7	
810	0:13:30	75.7	112.3	159.0	974.7	9.50	26.7	
825	0:13:45	76.5	112.9	159.8	974.8	9.50	26.7	
840	0:14:00	76.9	113.7	161.9	975.3	9.50	26.7	Analyzer High Span IN
855	0:14:15	77.2	114.5	163.2	974.8	9.50	26.7	
870	0:14:30	77.2	115.3	163.7	974.2	9.49	26.4	
885	0:14:45	76.9	115.9	163.4	921.4	9.40	26.0	
900	0:15:00	76.7	116.7	163.5	561.2	5.22	27.8	
915	0:15:15	76.7	117.4	164.3	509.2	5.04	21.3	
930	0:15:30	76.4	117.9	165.0	503.7	5.02	14.7	
945	0:15:45	76.6	118.5	166.4	502.1	5.01	14.5	
960	0:16:00	77.1	119.7	166.5	501.5	5.01	14.6	
975	0:16:15	76.7	121.9	166.6	501.0	5.01	14.6	
990	0:16:30	76.7	123.9	166.4	501.0	5.01	14.6	
1005	0:16:45	76.6	125.5	166.9	501.0	5.01	14.6	
1020	0:17:00	76.1	126.7	167.0	501.5	5.01	14.6	Start Mid Span IN
1035	0:17:15	76.1	127.5	167.1	501.5	5.01	14.6	
1050	0:17:30	76.7	128.3	167.5	501.5	5.01	14.6	
1065	0:17:45	77.3	129.0	167.8	501.0	5.01	14.6	
1080	0:18:00	76.9	129.6	167.8	501.5	5.01	14.5	
1095	0:18:15	76.7	130.1	167.8	501.0	5.01	14.5	
1110	0:18:30	77.1	130.5	169.5	501.0	5.01	14.6	
1125	0:18:45	76.9	131.0	170.0	501.0	5.01	14.6	
1140	0:19:00	77.1	131.4	170.6	501.5	5.01	14.6	
1155	0:19:15	77.2	131.8	171.5	501.5	5.01	14.6	
1170	0:19:30	76.6	132.1	172.6	501.5	5.01	14.6	
1185	0:19:45	76.5	132.3	173.8	501.5	5.01	14.6	
1200	0:20:00	76.9	132.6	174.1	501.0	5.01	14.6	
1215	0:20:15	74.8	132.9	175.0	501.0	5.01	14.6	
1230	0:20:30	75.1	133.2	175.8	501.0	5.01	14.6	
1245	0:20:45	75.1	133.6	176.2	501.0	5.01	14.5	
1260	0:21:00	75.9	134.2	176.9	501.0	5.01	14.6	
1275	0:21:15	75.6	134.5	176.9	501.0	5.01	14.6	
1290	0:21:30	76.2	135.1	177.7	501.0	5.01	14.6	
1305	0:21:45	76.4	135.5	179.5	501.0	5.01	14.6	
1320	0:22:00	76.1	136.0	180.1	501.0	5.01	14.6	Analyzer Mid Span IN
1335	0:22:15	75.9	136.6	180.5	501.0	5.01	14.6	
1350	0:22:30	76.2	137.0	181.4	501.0	5.01	14.6	
1365	0:22:45	76.8	137.6	182.1	500.5	5.01	14.5	
1380	0:23:00	77.1	137.9	183.4	500.5	5.01	13.9	
1395	0:23:15	77.3	138.4	183.9	402.1	4.41	14.1	
1410	0:23:30	76.9	139.0	184.6	257.0	2.63	11.4	
1425	0:23:45	76.4	139.6	185.5	245.1	2.58	8.4	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	76.6	140.4	186.0	242.3	2.58	6.5	
1455	0:24:15	75.5	141.3	185.1	241.8	2.58	6.7	
1470	0:24:30	74.2	142.5	182.5	241.2	2.58	6.8	
1485	0:24:45	72.6	138.6	177.5	241.2	2.58	6.9	
1500	0:25:00	72.9	134.0	173.2	241.2	2.58	6.9	Start Low Span IN
1515	0:25:15	72.8	138.3	170.0	241.2	2.58	6.9	
1530	0:25:30	71.9	140.9	168.4	241.2	2.58	6.9	
1545	0:25:45	72.5	141.4	168.0	241.3	2.58	7.0	
1560	0:26:00	72.7	140.3	168.0	241.2	2.58	6.9	
1575	0:26:15	73.4	139.1	167.3	241.2	2.58	6.9	
1590	0:26:30	73.9	139.4	166.3	241.2	2.58	6.9	
1605	0:26:45	73.9	139.0	166.6	241.2	2.58	6.9	
1620	0:27:00	74.8	138.7	167.5	241.2	2.58	6.9	
1635	0:27:15	75.1	138.4	167.9	241.3	2.58	6.9	
1650	0:27:30	74.7	137.7	168.1	241.2	2.57	6.9	
1665	0:27:45	75.2	137.5	168.4	241.2	2.57	6.9	
1680	0:28:00	75.3	137.7	168.6	241.3	2.57	6.9	
1695	0:28:15	75.6	137.9	168.0	241.2	2.57	6.9	
1710	0:28:30	75.0	138.3	166.8	241.3	2.57	6.9	
1725	0:28:45	75.2	139.1	165.1	241.3	2.57	6.9	
1740	0:29:00	75.6	139.9	163.1	241.3	2.57	6.9	
1755	0:29:15	75.9	140.9	161.8	241.2	2.57	6.9	
1770	0:29:30	76.1	140.9	161.2	241.3	2.57	6.9	
1785	0:29:45	76.3	140.0	161.6	241.2	2.57	6.9	
1800	0:30:00	76.3	138.7	163.9	241.3	2.57	6.9	Analyzer Low Span IN
1815	0:30:15	76.6	136.0	167.3	241.3	2.57	6.9	
1830	0:30:30	76.5	133.1	169.4	241.2	2.57	6.9	
1845	0:30:45	77.0	132.6	170.8	241.3	2.57	6.9	
1860	0:31:00	76.6	133.1	171.3	239.7	2.58	6.6	
1875	0:31:15	76.6	134.2	171.2	58.5	0.51	6.8	
1890	0:31:30	76.6	135.5	170.7	6.0	0.04	3.5	
1905	0:31:45	76.5	136.6	170.5	0.1	0.01	0.2	
1920	0:32:00	76.7	137.5	168.9	0.0	0.00	0.1	
1935	0:32:15	76.7	138.0	167.2	0.0	0.00	0.1	
1950	0:32:30	76.6	138.2	167.0	0.0	0.00	0.1	
1965	0:32:45	76.9	138.1	167.1	0.0	0.00	0.1	
1980	0:33:00	77.1	137.9	167.0	0.0	0.00	0.1	Start Zero Bias IN
1995	0:33:15	77.3	137.3	167.4	0.0	0.00	0.1	
2010	0:33:30	77.2	136.8	167.9	0.0	0.00	0.1	
2025	0:33:45	76.9	136.3	168.6	0.0	0.00	0.1	
2040	0:34:00	76.8	136.2	169.1	0.0	0.00	0.1	
2055	0:34:15	76.7	136.1	170.1	0.0	0.00	0.1	
2070	0:34:30	76.5	136.2	170.0	0.0	0.00	0.1	
2085	0:34:45	76.2	136.6	170.1	0.0	0.00	0.1	
2100	0:35:00	76.0	136.9	170.4	0.0	0.00	0.1	
2115	0:35:15	76.0	137.2	169.8	0.0	0.00	0.1	
2130	0:35:30	76.3	137.4	169.6	0.0	0.00	0.1	
2145	0:35:45	76.5	137.7	169.7	0.0	0.00	0.1	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	76.6	137.8	169.8	0.0	0.00	0.1
2175	0:36:15	76.7	137.9	169.7	0.0	0.00	0.1
2190	0:36:30	76.7	137.9	170.0	0.0	0.00	0.1
2205	0:36:45	76.7	138.0	170.7	0.0	0.00	0.1
2220	0:37:00	76.9	137.9	171.5	0.0	0.00	0.1
2235	0:37:15	77.1	137.9	171.1	0.0	0.00	0.1
2250	0:37:30	76.7	137.9	171.5	0.0	0.00	0.1
2265	0:37:45	76.8	138.1	171.9	0.0	0.00	0.1
2280	0:38:00	76.9	138.3	171.9	0.0	0.00	0.1
2295	0:38:15	76.9	138.4	172.3	0.0	0.00	0.1
2310	0:38:30	77.0	138.6	172.2	0.0	0.00	0.1
2325	0:38:45	76.8	138.7	172.7	0.0	0.00	0.1
2340	0:39:00	76.9	138.9	172.5	0.0	0.00	0.1
2355	0:39:15	76.7	139.0	172.8	0.0	0.00	0.1
2370	0:39:30	76.6	139.2	173.0	318.8	3.55	0.1
2385	0:39:45	76.8	139.2	173.2	472.3	4.86	0.1
2400	0:40:00	76.3	139.3	173.6	486.1	4.95	0.1
2415	0:40:15	76.3	139.4	174.2	490.4	4.97	0.1
2430	0:40:30	76.1	139.5	173.9	492.0	4.98	0.1
2445	0:40:45	75.5	139.6	174.5	492.5	4.99	0.1
2460	0:41:00	75.5	139.8	174.5	492.5	4.99	0.1
2475	0:41:15	75.3	140.0	175.0	493.0	4.99	0.1
2490	0:41:30	75.9	140.2	175.0	493.0	4.99	0.1
2505	0:41:45	76.2	140.3	175.3	493.0	4.99	0.1
2520	0:42:00	76.4	140.5	176.0	493.0	4.99	0.1
2535	0:42:15	76.5	140.9	175.9	493.0	4.99	0.1
2550	0:42:30	76.0	141.1	176.3	493.0	4.99	0.1
2565	0:42:45	76.5	141.3	176.4	493.0	4.99	0.1
2580	0:43:00	76.6	141.6	176.9	493.0	4.99	0.1
2595	0:43:15	76.7	141.8	177.3	493.0	5.00	0.1
2610	0:43:30	76.8	142.0	177.8	493.0	4.99	0.1
2625	0:43:45	76.5	142.1	178.1	493.0	5.00	0.1
2640	0:44:00	76.4	142.4	178.4	493.0	5.00	0.1
2655	0:44:15	76.9	142.7	178.9	493.0	5.00	0.1
2670	0:44:30	76.6	142.9	179.2	493.5	4.99	0.1
2685	0:44:45	75.9	143.1	179.4	493.0	5.00	0.1
2700	0:45:00	76.5	143.2	180.3	493.0	5.00	0.1
2715	0:45:15	76.5	143.4	180.3	493.0	5.00	0.1
2730	0:45:30	76.1	143.5	180.5	493.5	5.00	0.1
2745	0:45:45	76.4	143.7	180.6	493.0	5.00	0.1
2760	0:46:00	76.9	143.9	181.8	493.0	5.00	0.1
2775	0:46:15	76.1	144.1	181.3	493.5	5.00	0.1
2790	0:46:30	76.1	144.4	181.7	493.5	5.00	0.1
2805	0:46:45	76.7	144.7	182.6	487.6	5.00	0.1
2820	0:47:00	76.5	145.0	183.1	108.8	0.85	0.1
2835	0:47:15	76.6	145.5	183.3	179.4	2.08	0.1
2850	0:47:30	76.9	145.7	183.5	228.5	2.54	0.1
2865	0:47:45	77.0	145.9	183.6	234.3	2.57	0.1

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	77.1	146.2	184.2	236.5	2.58	0.1	
2895	0:48:15	77.3	146.6	185.0	237.0	2.58	0.1	
2910	0:48:30	77.4	147.1	185.4	237.0	2.58	0.1	
2925	0:48:45	77.2	147.3	184.7	237.0	2.58	0.1	
2940	0:49:00	77.2	146.5	185.0	237.0	2.58	0.1	Start Low CO/CO2 Bias IN
2955	0:49:15	77.2	145.6	184.8	237.0	2.58	0.1	
2970	0:49:30	76.6	145.4	184.9	237.0	2.58	0.1	
2985	0:49:45	76.4	145.2	185.2	237.0	2.58	0.1	
3000	0:50:00	76.5	145.2	185.6	237.0	2.57	0.1	
3015	0:50:15	76.0	145.1	186.0	237.0	2.57	0.1	
3030	0:50:30	75.6	145.2	185.5	237.0	2.57	0.0	
3045	0:50:45	76.1	145.3	185.2	237.0	2.58	0.0	
3060	0:51:00	76.5	145.6	185.0	237.0	2.57	0.0	
3075	0:51:15	75.9	145.6	184.2	237.0	2.58	0.0	
3090	0:51:30	76.5	145.6	184.5	237.5	2.58	0.0	
3105	0:51:45	75.8	145.4	184.5	237.5	2.58	0.0	
3120	0:52:00	76.0	145.4	184.2	237.5	2.58	0.0	
3135	0:52:15	76.0	145.3	184.6	237.0	2.57	0.0	
3150	0:52:30	75.5	145.1	184.9	237.0	2.57	0.0	
3165	0:52:45	75.3	145.0	184.5	237.0	2.58	0.0	
3180	0:53:00	73.9	144.9	184.5	237.0	2.57	0.0	
3195	0:53:15	71.7	144.9	185.2	237.0	2.57	0.0	
3210	0:53:30	71.9	144.9	184.4	237.0	2.57	0.0	
3225	0:53:45	71.8	144.9	184.6	237.0	2.57	0.0	
3240	0:54:00	71.5	144.8	184.2	237.0	2.57	0.0	System Low CO/CO2 IN
3255	0:54:15	71.6	144.9	184.0	237.0	2.57	0.0	
3270	0:54:30	71.5	144.8	184.1	237.0	2.57	0.0	
3285	0:54:45	73.1	144.8	184.8	237.0	2.57	0.0	
3300	0:55:00	74.3	144.8	184.5	237.0	2.57	0.0	
3315	0:55:15	74.9	144.7	183.8	237.0	2.57	0.0	
3330	0:55:30	74.4	144.6	183.9	185.2	2.44	0.0	
3345	0:55:45	75.0	144.7	184.5	24.6	0.18	0.0	
3360	0:56:00	75.3	144.7	184.3	2.8	0.04	0.0	
3375	0:56:15	75.8	144.6	184.6	0.0	0.01	6.6	
3390	0:56:30	76.0	144.6	185.1	0.0	0.00	13.6	
3405	0:56:45	75.9	144.5	184.8	0.0	0.00	14.0	
3420	0:57:00	76.0	144.7	184.1	0.0	0.00	14.1	Start Mid NOx Bias IN
3435	0:57:15	75.7	144.6	183.9	0.0	0.00	14.1	
3450	0:57:30	75.3	144.2	182.7	0.0	0.00	14.2	
3465	0:57:45	76.2	144.0	181.2	0.0	0.00	14.2	
3480	0:58:00	75.4	143.8	179.6	0.0	0.00	14.2	
3495	0:58:15	74.7	143.5	178.1	0.0	0.00	14.2	
3510	0:58:30	75.3	143.3	176.8	0.0	0.00	14.2	
3525	0:58:45	75.3	142.9	175.7	0.0	0.00	14.2	
3540	0:59:00	75.5	142.6	174.4	0.0	0.00	14.2	
3555	0:59:15	75.6	142.2	173.5	0.0	0.00	14.2	
3570	0:59:30	75.1	141.7	172.8	0.0	0.00	14.2	
3585	0:59:45	76.0	141.2	172.0	0.0	0.00	14.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	75.5	140.8	171.2	0.0	0.00	14.2	
3615	1:00:15	75.4	140.3	170.2	0.0	0.00	14.2	
3630	1:00:30	75.2	139.9	169.3	0.0	0.00	14.2	
3645	1:00:45	75.3	139.4	168.3	0.0	0.00	14.2	
3660	1:01:00	74.4	138.9	167.6	0.0	0.00	14.2	
3675	1:01:15	74.9	138.3	166.9	0.0	0.00	14.2	
3690	1:01:30	74.0	137.8	166.1	0.0	0.00	14.2	
3705	1:01:45	73.2	137.3	165.2	0.0	0.00	14.2	
3720	1:02:00	72.5	136.7	164.3	0.0	0.00	14.2	System Mid NOx IN
3735	1:02:15	72.0	136.2	163.4	0.0	0.00	14.2	
3750	1:02:30	72.4	135.6	162.4	0.0	0.00	14.2	
3765	1:02:45	71.6	135.1	161.3	0.0	0.00	14.2	
3780	1:03:00	72.0	134.6	160.1	0.0	0.02	14.2	
3795	1:03:15	72.5	134.1	159.2	0.0	0.00	7.3	
3810	1:03:30	72.3	133.4	158.0	0.0	0.00	3.6	
3825	1:03:45	73.6	132.8	157.0	0.0	0.00	6.7	
3840	1:04:00	73.7	132.4	155.9	0.0	0.00	6.7	
3855	1:04:15	74.0	132.1	154.8	0.0	0.00	6.8	
3870	1:04:30	74.8	132.2	175.1	0.0	0.00	6.8	
3885	1:04:45	74.5	135.7	173.6	0.0	0.00	6.8	
3900	1:05:00	74.6	135.7	163.9	0.0	0.00	6.8	Start Low NOx Bias IN
3915	1:05:15	75.0	132.9	162.5	0.0	0.00	6.8	
3930	1:05:30	74.7	121.4	167.6	0.0	0.00	6.8	
3945	1:05:45	74.3	116.7	180.4	0.0	0.00	6.8	
3960	1:06:00	73.9	115.3	195.3	0.0	0.00	6.8	
3975	1:06:15	73.4	115.3	193.3	0.0	0.00	6.8	
3990	1:06:30	71.9	118.0	210.9	0.0	0.00	6.8	
4005	1:06:45	73.1	120.4	213.1	0.0	0.00	6.8	
4020	1:07:00	73.8	124.7	200.9	0.0	0.00	6.8	
4035	1:07:15	74.6	129.0	184.9	0.0	0.00	6.8	
4050	1:07:30	74.5	116.0	169.6	0.0	0.00	6.8	
4065	1:07:45	74.5	111.1	159.4	0.0	0.00	6.8	
4080	1:08:00	74.8	114.0	150.7	0.0	0.00	6.8	
4095	1:08:15	75.1	122.1	143.8	0.0	0.00	6.8	
4110	1:08:30	75.3	128.9	137.1	0.0	0.00	6.8	
4125	1:08:45	75.6	129.0	131.2	0.0	0.00	6.8	
4140	1:09:00	75.2	124.1	127.7	0.0	0.00	6.8	
4155	1:09:15	75.5	115.4	125.2	0.0	0.00	6.8	
4170	1:09:30	75.1	109.9	121.3	0.0	0.00	6.8	
4185	1:09:45	74.9	107.6	122.4	0.0	0.00	6.8	
4200	1:10:00	75.2	107.6	135.2	0.0	0.00	6.8	System Low NOx IN
4215	1:10:15	75.2	108.3	137.9	0.0	0.00	6.8	
4230	1:10:30	75.7	112.4	135.3	0.0	0.00	6.8	
4245	1:10:45	75.2	120.3	131.4	0.0	0.00	6.8	
4260	1:11:00	75.4	121.4	130.8	0.0	0.00	6.8	
4275	1:11:15	75.2	119.6	132.7	0.0	0.00	6.8	
4290	1:11:30	75.1	120.1	138.3	0.0	0.00	6.8	
4305	1:11:45	73.6	119.4	141.2	0.0	0.00	6.8	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
4320	1:12:00	72.9	119.7	145.1	0.0	0.00	6.8
4335	1:12:15	72.2	120.0	152.3	0.0	0.00	6.8
4350	1:12:30	72.2	116.9	157.9	0.0	0.00	6.8
4365	1:12:45	72.6	115.3	160.1	0.0	0.01	6.7
4380	1:13:00	72.7	115.6	161.2	0.0	0.03	4.6
4395	1:13:15	73.7	117.4	161.1	0.0	0.03	2.4
4410	1:13:30	74.1	120.1	161.9	0.0	0.03	0.1
4425	1:13:45	74.4	122.3	161.6	0.0	0.03	0.1
4440	1:14:00	74.7	123.9	161.1	0.0	0.04	0.1
4455	1:14:15	74.6	124.9	160.0	0.0	0.04	0.1
4470	1:14:30	73.8	125.5	159.9	0.0	0.04	0.8
4485	1:14:45	73.4	125.9	159.2	0.0	0.04	1.6
4500	1:15:00	72.2	126.0	158.9	0.0	0.04	0.1
4515	1:15:15	72.0	125.9	159.6	0.0	0.04	0.1
4530	1:15:30	71.5	125.8	160.8	1.2	4.35	0.3
4545	1:15:45	71.1	125.6	161.7	2.8	8.43	0.6
4560	1:16:00	71.9	125.6	162.4	3.3	8.63	11.0
4575	1:16:15	73.1	125.6	162.9	3.3	8.68	11.2
4590	1:16:30	72.2	126.0	163.2	3.3	8.69	11.6
4605	1:16:45	72.6	126.3	163.3	3.3	8.70	11.7
4620	1:17:00	73.0	126.8	163.0	2.8	8.67	11.8
4635	1:17:15	73.6	127.1	161.5	0.1	8.08	11.6
4650	1:17:30	73.8	127.6	160.9	0.0	7.96	8.9
4665	1:17:45	74.5	127.9	160.4	0.0	7.94	6.4
4680	1:18:00	74.8	128.0	159.9	0.0	7.94	6.1
4695	1:18:15	74.6	127.8	159.6	0.0	7.93	6.0
4710	1:18:30	75.1	127.4	159.7	0.0	7.92	5.9
4725	1:18:45	75.1	127.0	159.7	0.0	7.93	5.8
4740	1:19:00	75.4	126.7	159.9	0.0	7.93	5.9
4755	1:19:15	75.1	126.4	159.8	0.0	7.91	5.9
4770	1:19:30	74.6	126.3	160.0	0.0	7.93	5.8
4785	1:19:45	74.3	126.7	160.0	0.0	7.90	5.8
4800	1:20:00	74.8	127.1	159.8	0.0	7.83	5.8
4815	1:20:15	74.7	127.3	159.4	0.0	7.80	5.6
4830	1:20:30	73.5	127.4	159.4	0.0	7.81	5.3
4845	1:20:45	72.8	127.4	158.7	0.0	7.79	5.3
4860	1:21:00	73.3	127.4	158.4	0.0	7.76	5.2
4875	1:21:15	73.5	127.2	158.1	0.0	7.75	5.1
4890	1:21:30	74.1	127.1	158.1	0.0	7.76	5.0
4905	1:21:45	74.4	126.9	158.2	0.0	7.74	5.0
4920	1:22:00	74.6	127.0	158.4	0.0	7.76	4.9
4935	1:22:15	74.5	127.3	158.7	0.0	7.80	4.9
4950	1:22:30	74.5	127.4	158.5	0.0	7.82	5.1
4965	1:22:45	73.2	127.4	158.8	0.0	7.82	5.2
4980	1:23:00	72.5	127.4	158.7	0.0	7.82	5.1
4995	1:23:15	72.9	127.5	158.5	0.0	7.80	5.1
5010	1:23:30	72.0	127.4	158.4	0.0	7.80	5.1
5025	1:23:45	71.8	127.4	158.2	0.0	7.79	5.1

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5040	1:24:00	71.2	127.5	158.2	0.0	7.76	5.0
5055	1:24:15	71.9	127.4	157.8	0.0	7.75	4.9
5070	1:24:30	71.9	127.3	158.0	0.0	7.75	4.9
5085	1:24:45	72.5	127.3	157.6	0.0	7.70	4.8
5100	1:25:00	72.9	127.3	157.6	0.0	7.61	4.7
5115	1:25:15	73.4	127.2	157.5	0.0	7.59	4.5
5130	1:25:30	73.9	127.2	157.2	0.0	7.59	4.3
5145	1:25:45	74.3	127.1	157.2	0.0	7.59	4.2
5160	1:26:00	74.4	126.9	157.2	0.0	7.59	4.2
5175	1:26:15	74.0	126.9	156.9	0.0	7.59	4.2
5190	1:26:30	74.2	126.7	157.0	0.0	7.59	4.1
5205	1:26:45	74.2	126.5	157.1	0.0	7.60	4.1
5220	1:27:00	74.6	126.6	157.2	0.0	7.62	4.2
5235	1:27:15	74.7	127.0	157.1	0.0	7.62	4.2
5250	1:27:30	74.5	127.2	157.1	0.0	7.62	4.2
5265	1:27:45	74.2	127.3	156.9	0.0	7.59	4.2
5280	1:28:00	74.8	127.4	156.8	0.0	7.59	4.1
5295	1:28:15	74.8	127.6	156.9	0.0	7.61	4.1
5310	1:28:30	74.9	127.7	156.9	0.0	7.59	4.1
5325	1:28:45	74.9	127.7	157.2	0.0	7.58	4.1
5340	1:29:00	75.0	128.0	157.2	0.0	7.59	4.0
5355	1:29:15	75.0	128.3	157.4	0.0	7.59	4.0
5370	1:29:30	75.1	128.4	157.7	0.0	7.59	4.0
5385	1:29:45	75.3	128.4	157.5	0.0	7.56	4.0
5400	1:30:00	75.4	128.6	157.8	0.0	7.58	3.9
5415	1:30:15	74.1	128.5	157.9	0.0	7.58	4.0
5430	1:30:30	73.3	128.6	157.8	0.0	7.59	4.0
5445	1:30:45	72.5	128.7	158.2	0.0	7.59	3.9
5460	1:31:00	73.2	128.7	158.4	0.0	7.59	4.0
5475	1:31:15	73.7	128.7	158.3	0.0	7.57	4.0
5490	1:31:30	73.3	128.8	158.8	0.0	7.59	4.0
5505	1:31:45	74.0	128.8	159.0	0.0	7.60	4.0
5520	1:32:00	73.5	129.0	159.0	0.0	7.60	4.0
5535	1:32:15	73.7	129.2	159.2	0.0	7.61	4.0
5550	1:32:30	72.9	129.2	159.4	0.0	7.61	4.0
5565	1:32:45	73.5	129.3	159.5	0.0	7.62	4.0
5580	1:33:00	73.5	129.4	159.5	0.0	7.62	4.0
5595	1:33:15	73.7	129.5	159.8	0.0	7.62	4.0
5610	1:33:30	74.0	129.8	160.1	0.0	7.64	4.1
5625	1:33:45	73.0	130.2	160.5	0.0	7.65	4.1
5640	1:34:00	71.4	130.4	161.1	0.0	7.67	4.1
5655	1:34:15	71.5	130.4	161.1	0.0	7.67	4.2
5670	1:34:30	71.0	130.5	161.2	0.0	7.67	4.3
5685	1:34:45	71.7	130.7	161.5	0.0	7.68	4.2
5700	1:35:00	71.7	131.0	161.7	0.0	7.65	4.3
5715	1:35:15	71.6	131.2	162.0	0.0	7.69	4.2
5730	1:35:30	71.5	131.3	162.4	0.0	7.70	4.2
5745	1:35:45	71.9	131.5	162.7	0.0	7.71	4.3

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
5760	1:36:00	72.7	131.6	163.1	0.0	7.73	4.4	
5775	1:36:15	73.6	131.7	163.5	0.0	7.75	4.4	
5790	1:36:30	74.3	132.0	164.0	0.0	7.76	4.5	
5805	1:36:45	74.4	132.3	164.3	0.0	7.78	4.5	
5820	1:37:00	74.7	132.6	165.0	0.0	7.80	4.6	
5835	1:37:15	74.6	132.9	165.4	0.0	7.81	4.7	
5850	1:37:30	74.6	133.2	165.5	0.0	7.83	4.8	
5865	1:37:45	74.4	133.4	165.8	0.0	7.83	4.8	
5880	1:38:00	74.7	133.6	166.4	0.0	7.83	4.9	
5895	1:38:15	74.5	133.9	166.8	0.0	7.85	4.9	
5910	1:38:30	74.6	134.1	167.3	0.0	7.86	5.0	
5925	1:38:45	74.3	134.2	167.9	0.0	7.89	5.0	
5940	1:39:00	74.3	134.4	168.4	0.0	7.89	5.1	
5955	1:39:15	73.6	134.8	168.9	0.0	7.90	5.1	
5970	1:39:30	74.2	135.1	169.2	0.0	7.92	5.3	
5985	1:39:45	73.5	135.3	170.1	0.0	7.94	5.3	
6000	1:40:00	73.3	135.7	170.6	0.0	7.95	5.5	
6015	1:40:15	74.1	136.0	171.0	0.0	7.95	5.5	
6030	1:40:30	74.1	136.3	171.5	0.0	7.95	5.6	
6045	1:40:45	74.5	136.6	172.0	0.0	7.97	5.6	
6060	1:41:00	74.4	136.9	172.4	0.1	7.99	5.5	
6075	1:41:15	74.7	137.3	173.0	0.0	8.00	5.6	
6090	1:41:30	74.7	137.7	173.6	0.0	8.00	5.7	
6105	1:41:45	74.9	138.0	173.8	0.0	8.02	5.8	
6120	1:42:00	74.3	138.6	173.9	0.0	8.03	5.8	
6135	1:42:15	73.6	139.1	174.0	0.1	8.04	5.9	
6150	1:42:30	72.4	139.5	174.2	0.1	8.04	5.9	
6165	1:42:45	71.9	139.6	174.8	0.1	8.04	6.0	
6180	1:43:00	70.8	139.9	175.3	0.1	8.04	6.0	
6195	1:43:15	71.2	140.0	175.8	0.1	8.04	6.0	
6210	1:43:30	70.9	140.3	176.6	0.1	8.04	6.0	
6225	1:43:45	72.4	140.4	177.1	0.1	8.05	6.1	
6240	1:44:00	73.2	140.7	177.8	0.1	8.06	6.1	
6255	1:44:15	73.5	141.0	178.4	0.1	8.07	6.1	
6270	1:44:30	74.3	141.4	178.9	0.1	8.08	6.2	
6285	1:44:45	74.6	141.8	179.3	0.1	8.08	6.2	
6300	1:45:00	74.8	142.3	179.5	0.1	7.92	6.3	
6315	1:45:15	74.8	142.9	179.7	0.0	7.85	5.8	
6330	1:45:30	74.1	143.3	179.9	0.0	7.84	5.2	
6345	1:45:45	74.7	143.8	180.2	0.1	7.84	5.1	
6360	1:46:00	74.9	144.1	180.7	0.1	7.85	5.1	
6375	1:46:15	75.5	144.4	181.0	0.0	7.86	5.1	
6390	1:46:30	75.6	144.5	181.7	0.0	7.88	5.2	
6405	1:46:45	76.0	144.8	181.7	0.1	7.84	5.2	
6420	1:47:00	75.9	145.2	181.4	2.3	7.39	5.2	
6435	1:47:15	75.7	145.4	180.1	3.3	7.34	4.3	
6450	1:47:30	75.7	142.7	179.3	3.8	7.35	3.3	
6465	1:47:45	75.6	140.2	179.1	3.8	7.37	3.3	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
6480	1:48:00	75.7	139.2	178.9	3.9	7.39	3.3
6495	1:48:15	75.7	138.4	179.0	4.4	7.40	3.3
6510	1:48:30	75.4	137.8	179.3	4.4	7.42	3.4
6525	1:48:45	75.2	137.3	179.0	4.4	7.40	3.4
6540	1:49:00	75.1	137.0	178.3	4.4	7.43	3.3
6555	1:49:15	75.6	136.9	177.2	4.9	7.43	3.4
6570	1:49:30	75.7	136.9	176.2	4.4	7.41	3.3
6585	1:49:45	75.7	137.0	175.3	4.4	7.43	3.3
6600	1:50:00	75.6	136.7	174.6	3.9	7.44	3.3
6615	1:50:15	75.8	136.4	173.1	14.5	7.46	3.3
6630	1:50:30	75.5	136.0	171.8	65.3	6.79	2.9
6645	1:50:45	75.1	135.3	170.6	75.7	6.70	2.4
6660	1:51:00	75.6	134.8	170.6	81.0	6.70	2.0
6675	1:51:15	75.2	135.0	171.0	84.8	6.69	2.0
6690	1:51:30	75.7	136.0	171.1	84.8	6.71	1.9
6705	1:51:45	76.0	136.0	171.4	85.8	6.73	1.9
6720	1:52:00	76.1	136.0	170.7	85.8	6.73	1.9
6735	1:52:15	75.8	135.9	170.5	85.3	6.73	1.9
6750	1:52:30	75.8	136.0	170.2	85.8	6.74	1.9
6765	1:52:45	75.4	135.9	169.8	89.2	6.73	1.9
6780	1:53:00	75.0	135.9	169.4	100.2	6.64	1.8
6795	1:53:15	74.1	135.7	169.4	101.8	6.65	1.8
6810	1:53:30	74.1	135.5	169.1	108.2	6.61	1.7
6825	1:53:45	73.7	135.2	169.0	113.0	6.58	1.7
6840	1:54:00	73.4	134.9	168.5	134.5	6.51	1.6
6855	1:54:15	73.5	134.7	168.1	139.0	6.49	1.5
6870	1:54:30	73.5	134.4	168.1	147.0	6.46	1.5
6885	1:54:45	73.3	134.3	167.9	146.0	6.47	1.4
6900	1:55:00	73.1	134.2	167.7	144.9	6.48	1.4
6915	1:55:15	72.5	134.0	167.7	145.4	6.47	1.4
6930	1:55:30	73.1	133.8	167.5	143.4	6.47	1.4
6945	1:55:45	74.4	133.6	167.2	144.9	6.48	1.4
6960	1:56:00	74.6	133.6	166.9	151.1	6.47	1.4
6975	1:56:15	75.0	133.6	167.0	150.8	6.47	1.4
6990	1:56:30	75.1	133.4	167.0	152.9	6.46	1.3
7005	1:56:45	75.2	134.0	167.1	151.3	6.46	1.3
7020	1:57:00	75.7	134.5	167.1	147.6	6.49	1.3
7035	1:57:15	75.7	134.6	167.2	144.9	6.51	1.3
7050	1:57:30	75.8	134.6	167.1	144.9	6.50	1.3
7065	1:57:45	75.7	134.6	166.7	180.6	6.48	1.3
7080	1:58:00	75.6	134.6	166.2	271.6	6.23	1.3
7095	1:58:15	75.8	134.5	165.9	288.1	6.18	1.2
7110	1:58:30	75.7	134.6	165.7	297.1	6.17	1.1
7125	1:58:45	75.8	134.4	165.8	300.3	6.16	1.1
7140	1:59:00	76.0	134.1	165.9	295.5	6.18	1.1
7155	1:59:15	75.9	133.9	166.0	300.3	6.17	1.1
7170	1:59:30	75.7	133.9	166.3	291.8	6.20	1.1
7185	1:59:45	75.7	133.9	166.4	287.0	6.21	1.1

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
7200	2:00:00	75.8	134.0	166.5	286.7	6.22	1.1	
7215	2:00:15	75.4	134.0	166.4	293.4	6.20	1.1	
7230	2:00:30	75.6	134.1	166.2	290.7	6.21	1.1	
7245	2:00:45	74.7	134.1	166.1	293.9	6.19	1.1	
7260	2:01:00	74.0	134.1	166.2	280.6	6.21	1.1	
7275	2:01:15	72.5	133.9	166.5	240.2	6.27	1.1	
7290	2:01:30	72.3	133.9	167.1	211.4	6.36	1.1	
7305	2:01:45	72.6	133.9	167.2	206.4	6.37	1.1	
7320	2:02:00	73.2	133.9	167.5	202.9	6.37	1.1	
7335	2:02:15	74.1	134.0	167.5	198.7	6.37	1.1	
7350	2:02:30	74.1	134.1	167.7	191.7	6.40	1.1	
7365	2:02:45	74.5	134.3	167.8	193.9	6.40	1.1	
7380	2:03:00	74.8	134.5	167.8	187.2	6.41	1.1	
7395	2:03:15	75.0	134.7	167.9	186.9	6.41	1.1	
7410	2:03:30	75.1	134.9	167.9	184.3	6.41	1.1	
7425	2:03:45	75.4	134.9	168.2	164.0	6.43	1.1	
7440	2:04:00	75.7	135.0	168.5	136.9	6.53	1.1	
7455	2:04:15	75.8	135.2	168.9	134.8	6.56	1.2	
7470	2:04:30	75.8	135.3	169.0	129.5	6.56	1.2	
7485	2:04:45	75.8	135.4	169.3	125.2	6.57	1.2	
7500	2:05:00	75.6	135.4	169.4	124.3	6.57	1.3	
7515	2:05:15	75.8	135.6	169.7	121.5	6.58	1.3	
7530	2:05:30	75.7	135.6	169.5	117.2	6.59	1.3	
7545	2:05:45	75.4	135.6	169.7	118.3	6.59	1.3	
7560	2:06:00	75.8	135.7	170.0	117.8	6.60	1.3	
7575	2:06:15	75.9	135.9	170.2	118.4	6.60	1.3	
7590	2:06:30	76.1	136.0	170.0	115.6	6.60	1.3	
7605	2:06:45	76.2	136.1	170.4	119.9	6.58	1.3	
7620	2:07:00	75.9	136.3	170.3	119.9	6.59	1.3	
7635	2:07:15	76.2	136.4	170.5	117.5	6.59	1.3	
7650	2:07:30	76.1	136.5	170.7	115.6	6.60	1.3	
7665	2:07:45	76.2	136.7	171.0	117.2	6.61	1.3	
7680	2:08:00	75.8	136.8	171.2	115.1	6.63	1.4	
7695	2:08:15	76.1	136.9	171.7	115.1	6.63	1.4	
7710	2:08:30	76.2	136.9	171.5	115.6	6.63	1.4	
7725	2:08:45	76.3	137.1	171.5	116.7	6.64	1.4	
7740	2:09:00	76.0	137.3	171.8	116.2	6.63	1.4	
7755	2:09:15	76.1	137.4	171.4	123.0	6.62	1.4	
7770	2:09:30	76.3	137.5	171.1	148.6	6.51	1.4	
7785	2:09:45	76.3	137.6	170.8	154.8	6.48	1.3	
7800	2:10:00	76.4	137.5	170.6	160.9	6.48	1.3	
7815	2:10:15	76.2	137.4	170.5	165.7	6.48	1.3	
7830	2:10:30	76.2	137.4	170.6	168.3	6.46	1.3	
7845	2:10:45	76.1	137.3	170.6	165.1	6.48	1.3	
7860	2:11:00	76.1	137.2	170.9	163.5	6.49	1.3	
7875	2:11:15	76.1	137.0	171.1	164.6	6.48	1.3	
7890	2:11:30	76.0	136.9	170.9	165.1	6.46	1.3	
7905	2:11:45	76.0	136.9	171.1	156.6	6.50	1.3	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
7920	2:12:00	76.2	136.8	171.0	164.8	6.46	1.3
7935	2:12:15	76.0	137.0	170.8	166.2	6.45	1.3
7950	2:12:30	75.6	136.9	170.8	164.8	6.47	1.3
7965	2:12:45	75.3	137.1	171.0	164.6	6.46	1.3
7980	2:13:00	75.6	137.1	170.9	164.1	6.45	1.2
7995	2:13:15	75.5	137.2	171.3	108.2	6.65	1.2
8010	2:13:30	75.4	137.2	171.7	82.6	6.80	1.4
8025	2:13:45	76.1	137.1	172.0	73.3	6.85	1.5
8040	2:14:00	76.2	137.1	172.2	69.3	6.86	1.6
8055	2:14:15	76.3	137.1	172.4	65.6	6.86	1.7
8070	2:14:30	75.9	137.5	172.4	65.6	6.89	1.7
8085	2:14:45	76.1	137.7	172.6	63.5	6.89	1.7
8100	2:15:00	75.4	137.8	172.7	64.5	6.87	1.7
8115	2:15:15	74.0	137.9	172.4	65.6	6.85	1.7
8130	2:15:30	73.0	138.0	172.6	62.4	6.86	1.7
8145	2:15:45	73.9	137.9	172.6	61.9	6.86	1.6
8160	2:16:00	74.3	138.1	172.7	65.1	6.84	1.6
8175	2:16:15	75.3	137.9	172.6	64.5	6.85	1.6
8190	2:16:30	75.7	137.9	172.9	63.5	6.85	1.6
8205	2:16:45	75.6	138.1	173.0	65.1	6.85	1.6
8220	2:17:00	75.6	138.1	173.3	61.3	6.87	1.6
8235	2:17:15	75.2	138.2	173.4	60.3	6.87	1.7
8250	2:17:30	73.2	138.2	173.4	61.9	6.86	1.7
8265	2:17:45	71.8	138.2	173.3	68.8	6.83	1.7
8280	2:18:00	71.9	138.3	172.8	81.6	6.73	1.7
8295	2:18:15	72.9	138.4	172.6	86.9	6.71	1.6
8310	2:18:30	73.3	138.4	172.4	89.0	6.71	1.5
8325	2:18:45	73.4	138.3	172.5	89.5	6.72	1.5
8340	2:19:00	72.9	138.2	172.3	91.7	6.71	1.5
8355	2:19:15	72.6	138.2	172.4	90.1	6.72	1.5
8370	2:19:30	71.6	138.0	172.6	90.6	6.71	1.5
8385	2:19:45	72.8	138.2	172.8	89.0	6.71	1.5
8400	2:20:00	73.0	138.2	172.8	91.1	6.70	1.5
8415	2:20:15	73.7	138.2	172.8	89.0	6.72	1.5
8430	2:20:30	73.9	138.3	172.9	87.9	6.74	1.5
8445	2:20:45	74.4	138.4	173.1	84.2	6.75	1.5
8460	2:21:00	72.9	138.4	173.7	36.3	7.02	1.6
8475	2:21:15	73.1	138.5	174.0	26.7	7.11	1.8
8490	2:21:30	74.1	138.6	174.0	24.1	7.11	2.1
8505	2:21:45	74.0	138.6	173.5	26.2	7.02	2.1
8520	2:22:00	74.9	138.7	173.2	26.7	7.01	1.9
8535	2:22:15	74.9	138.9	173.2	28.9	7.01	1.9
8550	2:22:30	75.4	139.1	173.3	29.4	7.01	1.9
8565	2:22:45	74.9	139.2	173.4	27.3	7.02	1.9
8580	2:23:00	74.9	139.1	173.3	26.7	7.03	1.9
8595	2:23:15	75.5	139.2	173.5	26.7	7.02	2.0
8610	2:23:30	75.8	139.3	173.7	25.7	7.03	2.0
8625	2:23:45	76.0	139.3	173.9	25.7	7.03	2.0

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
8640	2:24:00	75.8	139.2	173.7	27.8	7.00	2.0	
8655	2:24:15	76.0	139.3	173.4	29.9	6.96	2.0	
8670	2:24:30	75.9	139.4	173.4	31.5	6.97	1.9	
8685	2:24:45	75.9	139.5	172.8	31.5	6.99	1.9	
8700	2:25:00	76.3	139.6	164.3	24.6	1.97	2.0	
8715	2:25:15	76.2	139.2	157.3	57.6	1.08	1.3	
8730	2:25:30	76.5	139.1	163.6	85.2	6.65	1.2	
8745	2:25:45	76.9	138.9	168.4	73.6	6.84	1.7	
8760	2:26:00	76.8	137.1	170.6	66.7	6.86	1.7	
8775	2:26:15	76.2	134.2	171.3	60.3	6.87	1.7	
8790	2:26:30	75.3	133.6	171.8	57.1	6.86	1.7	
8805	2:26:45	75.3	134.4	172.1	53.3	6.88	1.7	
8820	2:27:00	75.5	135.6	172.1	51.7	6.86	1.8	
8835	2:27:15	75.0	136.5	172.3	51.2	6.87	1.7	
8850	2:27:30	75.0	137.2	171.7	49.1	6.88	1.7	
8865	2:27:45	76.1	137.6	170.5	47.5	6.88	1.8	
8880	2:28:00	75.7	137.8	169.8	48.0	6.88	1.8	
8895	2:28:15	75.4	138.0	169.1	51.2	6.86	1.7	
8910	2:28:30	74.5	138.1	168.9	51.7	6.86	1.7	
8925	2:28:45	72.7	137.8	169.0	50.1	6.86	1.7	
8940	2:29:00	72.4	137.3	169.6	50.1	6.86	1.7	
8955	2:29:15	73.1	136.8	169.8	51.7	6.85	1.7	
8970	2:29:30	73.0	136.4	170.3	51.2	6.85	1.7	
8985	2:29:45	73.9	136.3	170.6	52.3	6.85	1.7	
9000	2:30:00	74.4	136.4	170.4	60.8	6.78	1.7	
9015	2:30:15	74.1	136.5	170.4	64.6	6.78	1.7	
9030	2:30:30	74.6	136.7	170.2	68.3	6.76	1.6	
9045	2:30:45	75.0	137.0	169.7	67.7	6.77	1.6	
9060	2:31:00	74.4	137.1	169.7	67.2	6.79	1.6	
9075	2:31:15	73.9	137.0	169.4	67.7	6.78	1.6	
9090	2:31:30	74.4	137.0	169.3	68.2	6.77	1.6	
9105	2:31:45	74.3	136.9	169.2	65.1	6.79	1.6	
9120	2:32:00	74.9	136.8	169.3	66.1	6.78	1.6	
9135	2:32:15	74.8	136.7	169.5	66.7	6.78	1.6	
9150	2:32:30	75.1	136.7	169.6	62.9	6.79	1.6	
9165	2:32:45	75.0	136.7	169.9	62.4	6.80	1.6	
9180	2:33:00	75.3	136.5	169.6	62.4	6.79	1.7	
9195	2:33:15	75.6	136.6	169.5	65.1	6.79	1.6	
9210	2:33:30	73.6	136.5	169.2	65.6	6.78	1.6	
9225	2:33:45	73.1	136.6	169.1	65.6	6.79	1.7	
9240	2:34:00	72.3	136.5	169.0	65.6	6.79	1.6	
9255	2:34:15	72.6	136.4	169.1	67.7	6.78	1.6	
9270	2:34:30	73.6	136.2	168.8	66.7	6.77	1.6	
9285	2:34:45	73.8	136.2	169.0	67.2	6.77	1.6	
9300	2:35:00	74.5	136.1	168.7	67.2	6.77	1.6	
9315	2:35:15	73.8	136.2	169.1	67.2	6.77	1.6	
9330	2:35:30	74.6	136.1	168.9	65.1	6.78	1.6	
9345	2:35:45	74.4	136.1	169.0	63.2	6.79	1.6	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
9360	2:36:00	74.8	136.1	169.0	63.5	6.80	1.6	
9375	2:36:15	75.3	136.2	169.0	62.9	6.79	1.6	
9390	2:36:30	75.7	136.3	168.9	65.1	6.78	1.6	
9405	2:36:45	76.1	136.4	169.0	65.6	6.77	1.6	
9420	2:37:00	76.0	136.5	168.8	65.1	6.78	1.6	
9435	2:37:15	76.2	136.6	168.9	64.0	6.80	1.6	
9450	2:37:30	76.0	136.6	168.8	64.5	6.80	1.6	
9465	2:37:45	76.3	136.5	169.1	62.9	6.84	1.7	
9480	2:38:00	76.4	136.5	168.8	61.9	6.84	1.7	
9495	2:38:15	76.2	136.4	169.0	62.4	6.83	1.7	
9510	2:38:30	76.2	136.3	168.9	65.1	6.82	1.7	
9525	2:38:45	76.1	136.4	168.8	63.5	6.83	1.7	
9540	2:39:00	76.1	136.4	168.8	65.6	6.82	1.7	
9555	2:39:15	75.6	136.3	168.9	65.1	6.82	1.7	
9570	2:39:30	75.9	136.3	169.0	64.0	6.83	1.7	
9585	2:39:45	75.8	136.3	169.0	62.9	6.85	1.7	
9600	2:40:00	76.1	136.2	168.8	63.5	6.85	1.8	
9615	2:40:15	76.4	136.3	168.9	62.4	6.85	1.8	
9630	2:40:30	76.4	136.3	169.0	61.3	6.84	1.8	
9645	2:40:45	75.9	136.3	169.0	61.7	6.84	1.7	
9660	2:41:00	76.2	136.3	169.1	65.1	6.81	1.8	
9675	2:41:15	76.0	136.3	168.9	65.1	6.85	1.8	
9690	2:41:30	76.3	136.4	168.9	63.5	6.86	1.8	
9705	2:41:45	76.6	136.3	168.8	61.3	6.86	1.8	
9720	2:42:00	77.0	136.4	168.9	61.3	6.87	1.8	
9735	2:42:15	76.6	136.2	168.7	63.6	6.86	1.8	
9750	2:42:30	76.3	136.3	168.7	64.0	6.86	1.8	
9765	2:42:45	76.5	136.2	168.8	61.3	6.87	1.8	
9780	2:43:00	76.8	136.2	168.8	60.8	6.88	1.9	
9795	2:43:15	77.0	136.2	168.9	61.9	6.88	1.9	
9810	2:43:30	76.8	136.2	168.7	62.9	6.89	1.9	
9825	2:43:45	76.2	136.2	168.4	77.5	6.84	1.9	
9840	2:44:00	76.3	136.1	167.7	101.9	6.68	1.8	
9855	2:44:15	76.3	136.0	167.0	108.7	6.63	1.8	
9870	2:44:30	76.3	136.0	166.7	109.2	6.65	1.6	
9885	2:44:45	76.2	135.9	166.4	114.8	6.62	1.6	
9900	2:45:00	76.2	135.6	166.3	119.3	6.63	1.6	
9915	2:45:15	75.9	135.3	166.3	122.0	6.60	1.6	
9930	2:45:30	76.1	135.0	166.4	118.5	6.61	1.6	
9945	2:45:45	76.1	134.9	166.4	115.1	6.65	1.6	
9960	2:46:00	75.9	134.7	166.3	114.6	6.64	1.6	
9975	2:46:15	76.2	134.6	165.8	114.0	6.63	1.6	
9990	2:46:30	76.5	134.8	164.4	130.9	6.57	1.5	
10005	2:46:45	76.7	136.0	163.4	144.9	6.51	1.5	
10020	2:47:00	76.7	136.5	162.6	146.0	6.52	1.5	
10035	2:47:15	76.4	136.6	162.1	149.2	6.52	1.5	
10050	2:47:30	76.5	136.1	161.8	154.5	6.51	1.5	
10065	2:47:45	76.7	135.4	161.6	156.1	6.49	1.5	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
10080	2:48:00	76.7	135.1	161.8	155.0	6.45	1.5
10095	2:48:15	76.9	134.7	162.2	154.5	6.45	1.4
10110	2:48:30	76.9	134.5	162.4	151.3	6.46	1.4
10125	2:48:45	76.9	134.4	162.5	154.5	6.46	1.4
10140	2:49:00	77.3	134.3	162.4	160.9	6.47	1.4
10155	2:49:15	77.1	134.4	162.2	163.0	6.48	1.4
10170	2:49:30	78.0	134.5	161.8	161.9	6.49	1.5
10185	2:49:45	78.0	134.4	161.4	168.9	6.44	1.5
10200	2:50:00	78.2	134.4	160.9	169.5	6.41	1.4
10215	2:50:15	78.6	134.2	160.0	220.2	6.32	1.4
10230	2:50:30	78.5	134.0	159.2	273.7	6.15	1.3
10245	2:50:45	78.2	133.8	159.0	285.4	6.12	1.2
10260	2:51:00	77.9	133.9	159.4	290.7	6.15	1.2
10275	2:51:15	77.5	133.6	160.1	296.6	6.17	1.2
10290	2:51:30	77.5	132.7	160.4	294.1	6.19	1.3
10305	2:51:45	77.5	132.1	160.5	298.2	6.17	1.4
10320	2:52:00	77.5	132.0	160.6	295.8	6.18	1.3
10335	2:52:15	77.8	132.0	160.6	297.1	6.18	1.3
10350	2:52:30	77.4	132.2	160.3	301.9	6.17	1.3
10365	2:52:45	77.6	132.3	160.5	253.0	6.19	1.3
10380	2:53:00	77.5	132.4	160.7	157.9	6.51	1.3
10395	2:53:15	77.5	132.4	160.6	140.6	6.58	1.4
10410	2:53:30	77.8	132.4	160.6	134.8	6.58	1.5
10425	2:53:45	77.8	132.3	160.6	131.6	6.59	1.5
10440	2:54:00	77.7	132.4	160.4	131.1	6.59	1.5
10455	2:54:15	77.5	132.4	160.2	127.3	6.61	1.5
10470	2:54:30	77.7	132.5	160.1	127.9	6.60	1.6
10485	2:54:45	77.7	132.4	160.2	130.0	6.60	1.6
10500	2:55:00	77.7	132.4	160.3	127.9	6.61	1.6
10515	2:55:15	77.4	132.3	160.6	101.8	6.73	1.6
10530	2:55:30	77.2	132.2	160.6	93.8	6.77	1.7
10545	2:55:45	77.6	132.1	160.7	89.5	6.74	1.8
10560	2:56:00	77.7	132.2	160.8	86.2	6.74	1.6
10575	2:56:15	78.0	132.2	160.8	83.2	6.75	1.6
10590	2:56:30	77.9	132.4	161.0	84.2	6.76	1.6
10605	2:56:45	78.1	132.4	160.9	83.2	6.80	1.7
10620	2:57:00	78.7	132.4	160.9	81.0	6.79	1.8
10635	2:57:15	78.6	132.5	160.7	73.6	6.82	1.8
10650	2:57:30	78.4	132.5	160.7	74.1	6.78	1.8
10665	2:57:45	77.9	132.6	160.7	70.4	6.78	1.8
10680	2:58:00	78.5	132.6	161.0	68.2	6.80	1.7
10695	2:58:15	78.7	132.5	160.9	66.6	6.77	1.7
10710	2:58:30	78.4	132.4	160.9	65.1	6.77	1.7
10725	2:58:45	78.5	132.5	161.2	67.2	6.74	1.6
10740	2:59:00	78.5	132.6	161.2	65.6	6.76	1.6
10755	2:59:15	78.4	132.7	161.2	65.1	6.77	1.6
10770	2:59:30	78.4	132.7	161.2	65.6	6.79	1.7
10785	2:59:45	78.5	132.8	161.3	68.8	6.76	1.7

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
10800	3:00:00	78.2	132.7	161.1	72.5	6.76	1.7
10815	3:00:15	77.7	132.9	161.1	69.8	6.78	1.7
10830	3:00:30	77.8	132.9	161.2	68.8	6.76	1.7
10845	3:00:45	78.2	132.9	161.3	65.1	6.77	1.7
10860	3:01:00	78.4	132.8	161.1	66.7	6.74	1.7
10875	3:01:15	78.1	132.8	161.3	66.6	6.74	1.6
10890	3:01:30	77.3	132.7	161.3	67.2	6.75	1.6
10905	3:01:45	75.9	132.9	161.4	65.0	6.75	1.7
10920	3:02:00	75.0	132.8	161.5	65.6	6.74	1.7
10935	3:02:15	74.5	132.9	161.4	66.6	6.73	1.6
10950	3:02:30	74.7	132.9	161.5	69.3	6.71	1.6
10965	3:02:45	75.0	132.9	161.4	67.2	6.72	1.6
10980	3:03:00	76.0	132.9	161.5	67.7	6.72	1.6
10995	3:03:15	76.4	132.8	162.3	67.7	6.71	1.6
11010	3:03:30	77.0	132.8	162.4	67.7	6.72	1.6
11025	3:03:45	77.0	133.1	162.8	67.2	6.73	1.6
11040	3:04:00	76.9	133.2	162.7	65.6	6.73	1.6
11055	3:04:15	77.5	133.5	163.0	64.0	6.74	1.6
11070	3:04:30	78.0	133.7	162.8	67.2	6.72	1.6
11085	3:04:45	77.5	133.9	162.9	69.3	6.71	1.6
11100	3:05:00	77.6	134.2	162.7	68.8	6.72	1.6
11115	3:05:15	77.4	134.3	162.9	72.5	6.73	1.7
11130	3:05:30	77.3	134.3	163.0	73.6	6.73	1.9
11145	3:05:45	77.0	134.3	163.1	72.5	6.72	1.9
11160	3:06:00	77.3	134.2	163.4	72.0	6.73	2.0
11175	3:06:15	77.1	134.2	163.5	72.0	6.74	1.9
11190	3:06:30	77.5	134.3	163.6	71.4	6.74	1.8
11205	3:06:45	77.5	134.3	163.9	71.4	6.73	1.7
11220	3:07:00	77.6	134.3	164.1	69.8	6.74	1.8
11235	3:07:15	77.6	134.6	164.2	68.2	6.76	1.8
11250	3:07:30	77.7	134.9	164.4	62.9	6.77	1.8
11265	3:07:45	78.2	135.2	164.8	60.3	6.78	1.8
11280	3:08:00	78.0	135.4	164.7	58.1	6.79	1.8
11295	3:08:15	77.1	135.5	164.7	57.1	6.80	1.8
11310	3:08:30	78.0	135.6	164.9	58.1	6.83	1.9
11325	3:08:45	78.8	135.7	165.0	60.3	6.81	1.9
11340	3:09:00	78.7	135.8	165.0	60.3	6.82	1.9
11355	3:09:15	78.2	135.8	165.2	59.7	6.81	1.9
11370	3:09:30	78.4	135.9	165.1	61.3	6.83	1.9
11385	3:09:45	79.0	135.9	165.2	63.5	6.80	1.9
11400	3:10:00	79.1	135.9	165.4	59.7	6.83	1.9
11415	3:10:15	78.2	136.0	165.6	61.3	6.80	1.9
11430	3:10:30	78.5	136.0	165.7	61.9	6.82	1.9
11445	3:10:45	79.0	136.1	165.7	59.7	6.82	1.9
11460	3:11:00	79.0	136.1	166.0	57.1	6.82	1.9
11475	3:11:15	79.2	136.2	165.9	58.7	6.80	1.9
11490	3:11:30	77.9	136.2	166.0	63.5	6.77	1.9
11505	3:11:45	77.3	136.3	165.8	65.6	6.74	1.9

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
11520	3:12:00	77.1	136.4	166.0	64.0	6.75	1.7	
11535	3:12:15	77.5	136.4	166.2	60.8	6.76	1.7	
11550	3:12:30	77.5	136.4	166.3	65.6	6.71	1.7	
11565	3:12:45	77.6	136.4	166.2	66.6	6.72	1.7	
11580	3:13:00	77.8	136.5	166.2	64.5	6.74	1.6	
11595	3:13:15	76.4	136.5	166.4	65.0	6.73	1.7	
11610	3:13:30	75.6	136.6	166.6	62.9	6.73	1.7	
11625	3:13:45	75.3	136.8	166.8	61.9	6.74	1.6	
11640	3:14:00	75.1	136.9	166.9	62.9	6.73	1.6	
11655	3:14:15	75.3	137.0	166.9	64.5	6.71	1.6	
11670	3:14:30	75.2	137.1	166.9	63.5	6.72	1.6	
11685	3:14:45	75.5	137.1	167.4	56.8	6.75	1.6	
11700	3:15:00	75.7	137.2	167.8	48.5	6.83	1.6	
11715	3:15:15	75.6	137.3	168.0	44.3	6.85	1.7	
11730	3:15:30	75.8	137.3	168.4	42.2	6.85	1.7	
11745	3:15:45	76.1	137.4	168.5	41.6	6.86	1.7	
11760	3:16:00	76.5	137.6	168.7	41.1	6.86	1.8	
11775	3:16:15	76.8	137.8	168.8	38.4	6.87	1.8	
11790	3:16:30	76.9	138.0	168.8	37.9	6.87	1.8	
11805	3:16:45	76.8	138.1	168.9	39.0	6.86	1.8	
11820	3:17:00	76.6	138.2	169.0	37.9	6.87	1.8	
11835	3:17:15	75.5	138.3	169.2	37.4	6.87	1.8	
11850	3:17:30	75.3	138.4	169.1	40.0	6.85	1.8	
11865	3:17:45	76.3	138.6	169.5	37.9	6.87	1.8	
11880	3:18:00	76.8	138.6	169.5	38.4	6.86	1.8	
11895	3:18:15	77.6	138.7	169.6	38.4	6.86	1.8	
11910	3:18:30	77.9	138.9	169.8	38.4	6.86	1.8	
11925	3:18:45	78.3	139.0	170.0	38.4	6.89	1.8	
11940	3:19:00	79.2	138.9	170.0	40.0	6.87	1.8	
11955	3:19:15	79.3	138.9	170.2	38.4	6.89	1.8	
11970	3:19:30	79.3	139.2	170.1	36.3	6.90	1.9	
11985	3:19:45	79.4	139.2	170.2	37.9	6.89	1.9	
12000	3:20:00	80.1	139.4	170.4	40.0	6.89	1.9	
12015	3:20:15	80.0	139.3	170.3	37.4	6.91	1.9	
12030	3:20:30	79.2	139.4	170.3	36.8	6.89	1.9	
12045	3:20:45	79.3	139.4	170.6	35.8	6.91	1.9	
12060	3:21:00	79.3	139.6	170.7	36.3	6.90	1.9	
12075	3:21:15	79.0	139.6	170.7	36.8	6.90	1.9	
12090	3:21:30	78.7	139.6	171.0	39.5	6.90	1.9	
12105	3:21:45	78.5	139.8	171.2	39.0	6.91	1.9	
12120	3:22:00	78.3	139.8	171.2	37.4	6.91	1.9	
12135	3:22:15	78.6	139.9	171.1	37.4	6.90	1.9	
12150	3:22:30	78.6	139.9	171.3	37.9	6.88	1.9	
12165	3:22:45	78.6	140.0	171.3	37.4	6.89	1.9	
12180	3:23:00	78.7	140.2	171.4	37.9	6.89	1.9	
12195	3:23:15	78.8	140.2	171.5	37.9	6.89	1.9	
12210	3:23:30	78.9	140.3	171.5	35.8	6.91	1.9	
12225	3:23:45	79.0	140.5	171.5	36.3	6.89	1.9	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
12240	3:24:00	78.7	140.5	171.6	37.9	6.90	1.9
12255	3:24:15	79.0	140.5	171.7	37.9	6.90	1.9
12270	3:24:30	79.1	140.5	171.9	37.4	6.88	1.9
12285	3:24:45	79.3	140.5	172.0	36.8	6.91	1.9
12300	3:25:00	78.7	140.7	172.0	37.4	6.91	1.9
12315	3:25:15	78.8	140.8	172.0	37.4	6.90	1.9
12330	3:25:30	78.6	140.9	172.3	38.4	6.88	1.9
12345	3:25:45	78.4	141.0	172.3	40.0	6.86	1.9
12360	3:26:00	78.7	141.0	172.4	39.0	6.88	1.8
12375	3:26:15	79.0	141.0	172.3	39.5	6.86	1.8
12390	3:26:30	79.5	141.1	172.5	40.6	6.87	1.8
12405	3:26:45	79.8	141.1	172.4	37.4	6.87	1.9
12420	3:27:00	80.4	141.1	172.6	37.4	6.89	1.9
12435	3:27:15	80.4	141.1	172.7	37.9	6.89	1.9
12450	3:27:30	80.8	141.1	172.9	37.4	6.92	1.9
12465	3:27:45	80.4	141.1	172.9	35.8	6.92	2.0
12480	3:28:00	79.8	141.2	172.8	34.7	6.92	2.0
12495	3:28:15	79.7	141.2	172.7	34.2	6.91	2.0
12510	3:28:30	79.4	141.2	172.9	35.2	6.91	1.9
12525	3:28:45	79.8	141.3	173.0	37.4	6.90	1.9
12540	3:29:00	80.5	141.4	172.8	37.9	6.89	1.9
12555	3:29:15	80.2	141.5	172.9	36.8	6.88	1.9
12570	3:29:30	79.6	141.6	172.9	37.9	6.86	1.9
12585	3:29:45	79.7	141.5	173.0	39.5	6.85	1.9
12600	3:30:00	80.6	141.6	173.1	35.8	6.90	1.8
12615	3:30:15	80.2	141.5	173.1	34.2	6.89	1.9
12630	3:30:30	79.4	141.5	173.3	35.8	6.89	1.9
12645	3:30:45	79.3	141.5	173.2	36.3	6.88	1.9
12660	3:31:00	79.6	141.6	173.1	37.4	6.87	1.9
12675	3:31:15	79.1	141.6	173.3	36.8	6.87	1.8
12690	3:31:30	79.5	141.7	173.7	36.8	6.88	1.8
12705	3:31:45	79.2	141.7	173.3	37.4	6.89	1.8
12720	3:32:00	79.4	141.7	173.5	36.8	6.88	1.9
12735	3:32:15	79.8	141.8	173.5	37.9	6.87	1.9
12750	3:32:30	80.2	141.7	173.4	36.3	6.89	1.9
12765	3:32:45	80.4	141.8	173.6	35.8	6.90	1.9
12780	3:33:00	80.6	141.8	173.4	35.8	6.91	1.9
12795	3:33:15	81.0	141.8	173.5	34.7	6.92	1.9
12810	3:33:30	80.8	141.9	173.5	33.6	6.92	1.9
12825	3:33:45	80.2	141.9	173.5	34.7	6.90	2.0
12840	3:34:00	80.2	141.9	173.5	35.8	6.90	1.9
12855	3:34:15	80.7	141.9	173.7	37.4	6.89	1.9
12870	3:34:30	80.6	142.0	173.6	37.4	6.89	1.9
12885	3:34:45	80.6	141.9	173.6	35.2	6.89	1.9
12900	3:35:00	79.6	142.0	174.0	35.8	6.90	1.9
12915	3:35:15	79.8	142.0	174.1	35.2	6.89	1.9
12930	3:35:30	79.4	142.2	174.1	35.2	6.90	1.9
12945	3:35:45	79.8	142.3	174.0	35.2	6.89	1.9

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
12960	3:36:00	80.2	142.3	174.1	35.2	6.89	1.8
12975	3:36:15	80.2	142.4	174.0	34.2	6.90	1.8
12990	3:36:30	79.7	142.6	174.1	34.2	6.90	1.9
13005	3:36:45	79.5	142.6	174.1	34.2	6.89	1.9
13020	3:37:00	80.1	142.7	174.2	34.7	6.89	1.8
13035	3:37:15	80.0	142.8	174.4	34.2	6.90	1.8
13050	3:37:30	79.4	142.8	174.4	32.0	6.92	1.9
13065	3:37:45	79.7	142.9	174.3	33.1	6.90	1.9
13080	3:38:00	78.9	142.9	174.3	34.7	6.89	1.9
13095	3:38:15	77.2	143.0	174.3	36.8	6.88	1.9
13110	3:38:30	76.5	143.1	174.6	36.3	6.88	1.8
13125	3:38:45	76.6	143.0	174.7	35.8	6.87	1.8
13140	3:39:00	77.5	143.0	174.9	34.2	6.89	1.8
13155	3:39:15	77.8	143.0	174.8	33.6	6.86	1.8
13170	3:39:30	78.5	143.0	174.9	32.6	6.88	1.8
13185	3:39:45	79.3	143.1	175.0	34.7	6.87	1.8
13200	3:40:00	79.7	143.3	175.3	34.7	6.90	1.8
13215	3:40:15	79.9	143.4	175.2	34.7	6.91	1.9
13230	3:40:30	80.1	143.5	175.1	34.7	6.91	1.9
13245	3:40:45	79.8	143.5	175.3	36.8	6.89	1.8
13260	3:41:00	80.1	143.7	175.0	35.8	6.87	1.8
13275	3:41:15	80.1	143.6	174.9	36.8	6.89	1.8
13290	3:41:30	80.2	143.7	175.1	34.7	6.90	1.8
13305	3:41:45	80.0	143.8	175.2	34.7	6.90	1.8
13320	3:42:00	80.2	143.7	175.5	36.8	6.87	1.8
13335	3:42:15	80.0	143.7	175.5	33.1	6.91	1.8
13350	3:42:30	80.4	143.8	175.4	35.8	6.89	1.9
13365	3:42:45	80.8	143.7	175.3	36.8	6.88	1.9
13380	3:43:00	81.2	143.7	174.9	41.6	6.84	1.8
13395	3:43:15	81.4	143.7	174.6	50.7	6.75	1.8
13410	3:43:30	81.2	143.6	174.5	51.2	6.76	1.7
13425	3:43:45	82.0	143.6	174.3	53.3	6.75	1.7
13440	3:44:00	81.7	143.5	174.4	51.7	6.77	1.7
13455	3:44:15	82.0	143.3	174.5	54.5	6.75	1.7
13470	3:44:30	80.8	143.2	174.1	54.4	6.77	1.7
13485	3:44:45	79.8	143.0	174.3	52.8	6.77	1.7
13500	3:45:00	79.4	143.0	174.3	52.3	6.76	1.7
13515	3:45:15	79.1	142.9	174.2	52.3	6.75	1.7
13530	3:45:30	79.0	143.0	174.2	54.9	6.75	1.7
13545	3:45:45	78.7	142.9	174.2	56.5	6.73	1.7
13560	3:46:00	79.3	142.9	174.1	55.5	6.75	1.6
13575	3:46:15	79.6	142.8	173.8	56.5	6.74	1.6
13590	3:46:30	79.7	142.8	174.0	56.0	6.73	1.6
13605	3:46:45	80.5	142.8	174.1	53.3	6.76	1.6
13620	3:47:00	80.3	142.9	173.9	53.3	6.75	1.7
13635	3:47:15	80.3	143.1	173.9	54.9	6.73	1.7
13650	3:47:30	79.7	143.0	173.7	54.4	6.74	1.6
13665	3:47:45	79.9	143.1	174.0	53.3	6.74	1.6

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13680	3:48:00	80.3	143.0	174.0	54.9	6.73	1.6	
13695	3:48:15	80.2	142.9	173.8	56.0	6.72	1.6	
13710	3:48:30	80.2	142.9	173.6	57.6	6.72	1.6	
13725	3:48:45	79.6	142.9	173.6	56.5	6.73	1.6	
13740	3:49:00	78.8	142.9	173.6	57.6	6.74	1.6	
13755	3:49:15	77.2	143.0	173.7	57.1	6.73	1.6	
13770	3:49:30	77.0	142.9	173.8	57.1	6.73	1.6	
13785	3:49:45	76.9	142.9	173.8	58.7	6.73	1.6	
13800	3:50:00	76.4	142.9	173.8	61.7	6.69	1.6	
13815	3:50:15	75.3	143.0	174.1	60.8	6.70	1.6	
13830	3:50:30	75.2	143.1	173.9	59.7	6.71	1.5	
13845	3:50:45	75.8	143.1	174.0	61.3	6.72	1.5	
13860	3:51:00	76.1	143.1	174.2	60.5	6.72	1.6	
13875	3:51:15	75.8	143.1	174.2	59.2	6.73	1.6	
13890	3:51:30	76.9	143.1	174.1	54.4	6.73	1.6	
13905	3:51:45	76.4	143.2	174.3	48.0	6.79	1.6	
13920	3:52:00	76.6	143.3	174.2	46.9	6.78	1.6	
13935	3:52:15	76.0	143.2	174.1	46.4	6.79	1.6	
13950	3:52:30	76.0	143.3	174.3	45.3	6.79	1.6	
13965	3:52:45	76.3	143.3	174.3	49.1	6.77	1.6	
13980	3:53:00	76.0	143.3	174.3	46.9	6.79	1.6	
13995	3:53:15	76.6	143.3	174.4	45.3	6.79	1.6	
14010	3:53:30	77.1	143.3	174.5	43.7	6.80	1.6	
14025	3:53:45	77.3	143.3	174.4	43.7	6.79	1.6	
14040	3:54:00	78.3	143.4	174.3	44.8	6.79	1.6	
14055	3:54:15	79.3	143.4	174.5	44.8	6.78	1.6	
14070	3:54:30	79.2	143.4	175.0	16.1	7.05	1.7	
14085	3:54:45	79.2	143.5	175.1	9.2	7.15	1.8	
14100	3:55:00	78.6	143.6	175.1	6.0	7.16	2.2	
14115	3:55:15	79.1	143.6	175.3	4.4	7.17	2.2	
14130	3:55:30	79.4	143.7	175.8	3.3	7.18	2.3	
14145	3:55:45	79.5	143.7	175.7	2.8	7.19	2.3	
14160	3:56:00	79.3	144.0	175.9	2.2	7.19	2.3	
14175	3:56:15	79.0	144.1	175.8	2.2	7.21	2.3	
14190	3:56:30	78.6	144.2	175.9	2.8	7.20	2.4	
14205	3:56:45	78.6	144.3	176.1	1.7	7.21	2.4	
14220	3:57:00	78.9	144.4	176.1	0.6	7.22	2.4	
14235	3:57:15	78.8	144.4	176.3	1.2	7.20	2.4	
14250	3:57:30	78.1	144.4	176.3	2.2	7.19	2.4	
14265	3:57:45	77.4	144.5	175.8	2.2	7.17	2.4	
14280	3:58:00	76.3	144.5	176.3	1.7	7.18	2.3	
14295	3:58:15	76.1	144.5	176.3	1.7	7.19	2.3	
14310	3:58:30	75.8	144.6	176.5	2.8	7.15	2.4	
14325	3:58:45	76.6	144.5	176.4	5.4	7.08	2.4	
14340	3:59:00	76.6	144.6	176.6	7.6	7.09	2.2	
14355	3:59:15	76.4	144.6	176.6	7.0	7.09	2.2	
14370	3:59:30	76.5	144.8	176.5	7.0	7.09	2.2	
14385	3:59:45	76.3	144.8	177.0	8.1	7.09	2.2	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14400	4:00:00	75.5	144.9	176.9	8.6	7.08	2.2	
14415	4:00:15	76.9	145.0	176.6	9.2	7.07	2.2	
14430	4:00:30	76.2	145.0	176.7	8.1	7.06	2.2	
14445	4:00:45	75.7	145.0	176.6	8.1	7.06	2.1	
14460	4:01:00	75.7	145.3	176.8	11.3	7.02	2.1	
14475	4:01:15	75.9	145.3	177.0	11.3	7.02	2.1	
14490	4:01:30	75.2	145.4	177.2	11.8	7.03	2.1	
14505	4:01:45	74.7	145.5	177.2	12.9	7.04	2.1	
14520	4:02:00	75.1	145.5	177.3	11.8	7.04	2.1	
14535	4:02:15	75.1	145.5	177.2	11.8	7.03	2.1	
14550	4:02:30	75.6	145.5	177.3	10.2	7.04	2.1	
14565	4:02:45	75.5	145.7	177.5	11.3	7.03	2.1	
14580	4:03:00	75.5	145.7	177.5	12.3	7.03	2.1	
14595	4:03:15	75.5	145.8	177.6	12.3	7.04	2.1	
14610	4:03:30	74.3	145.9	177.4	17.7	6.93	2.0	
14625	4:03:45	74.9	146.1	177.4	20.3	6.92	2.0	
14640	4:04:00	74.6	146.0	177.5	23.0	6.92	1.9	
14655	4:04:15	74.0	146.1	177.4	22.5	6.93	1.9	
14670	4:04:30	73.4	146.2	177.6	23.5	6.92	1.9	
14685	4:04:45	74.3	146.2	177.6	22.5	6.92	1.9	
14700	4:05:00	74.8	146.1	177.7	23.0	6.92	1.9	
14715	4:05:15	74.3	146.1	177.7	23.0	6.92	1.9	
14730	4:05:30	74.4	146.1	177.9	22.5	6.92	1.9	
14745	4:05:45	75.0	146.1	178.4	18.7	7.00	1.9	
14760	4:06:00	75.6	146.2	178.8	14.5	7.05	2.0	
14775	4:06:15	76.2	146.2	179.3	13.4	7.06	2.1	
14790	4:06:30	76.7	146.3	179.0	13.4	7.05	2.1	
14805	4:06:45	77.6	146.4	179.3	11.3	7.08	2.1	
14820	4:07:00	77.8	146.7	179.3	9.7	7.09	2.1	Start Low Fire Equilibrium - #1
14835	4:07:15	78.0	146.9	179.5	10.2	7.09	2.2	
14850	4:07:30	77.3	147.0	179.6	8.6	7.08	2.2	
14865	4:07:45	76.9	147.1	179.5	9.2	7.08	2.1	
14880	4:08:00	76.8	147.2	179.5	9.7	7.07	2.1	
14895	4:08:15	75.7	147.3	179.5	9.1	7.09	2.1	
14910	4:08:30	75.7	147.4	179.8	9.2	7.07	2.1	
14925	4:08:45	75.6	147.4	180.0	10.2	7.05	2.1	
14940	4:09:00	75.0	147.5	179.9	10.7	7.06	2.1	
14955	4:09:15	75.1	147.6	180.1	11.8	7.07	2.1	
14970	4:09:30	75.3	147.5	180.3	9.7	7.07	2.1	
14985	4:09:45	75.0	147.6	180.3	10.1	7.05	2.1	
15000	4:10:00	75.1	147.7	180.5	11.3	7.04	2.1	
15015	4:10:15	74.5	147.7	180.6	11.3	7.05	2.1	
15030	4:10:30	74.0	147.8	180.9	11.8	7.05	2.1	
15045	4:10:45	74.6	148.0	180.6	12.3	7.04	2.1	
15060	4:11:00	74.2	148.1	180.8	12.9	7.03	2.1	
15075	4:11:15	75.3	148.0	180.7	13.4	7.02	2.1	
15090	4:11:30	74.5	148.2	180.8	18.7	6.96	2.1	
15105	4:11:45	74.8	148.3	180.7	23.5	6.92	2.1	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15120	4:12:00	75.1	148.3	180.6	26.2	6.90	1.9	End Low Fire Equilibrium - #1
15135	4:12:15	75.2	148.3	180.8	25.7	6.91	1.9	
15150	4:12:30	74.5	148.4	180.8	26.2	6.92	1.9	
15165	4:12:45	74.7	148.4	180.8	26.2	6.90	1.9	
15180	4:13:00	76.2	148.4	180.8	27.2	6.90	1.8	Start Test - Low Fire - #1
15195	4:13:15	77.1	148.3	180.8	26.7	6.90	1.8	
15210	4:13:30	77.8	148.4	180.7	31.5	6.89	1.8	
15225	4:13:45	78.0	148.4	180.8	40.6	6.78	1.8	
15240	4:14:00	77.5	148.4	180.6	44.3	6.77	1.7	
15255	4:14:15	76.7	148.4	180.7	48.5	6.75	1.7	
15270	4:14:30	76.9	148.4	180.6	47.5	6.76	1.7	
15285	4:14:45	75.7	148.3	180.7	49.6	6.76	1.6	
15300	4:15:00	75.4	148.3	180.5	50.7	6.74	1.6	
15315	4:15:15	75.2	148.2	180.8	50.7	6.73	1.6	
15330	4:15:30	74.9	148.1	180.9	50.1	6.75	1.6	
15345	4:15:45	74.9	148.2	181.0	51.2	6.75	1.6	
15360	4:16:00	75.7	148.2	180.8	53.3	6.74	1.6	
15375	4:16:15	75.9	148.2	180.7	54.4	6.72	1.6	
15390	4:16:30	76.1	148.2	180.7	52.3	6.75	1.6	
15405	4:16:45	76.6	148.2	180.9	52.8	6.75	1.6	
15420	4:17:00	77.6	148.3	180.7	51.2	6.75	1.6	
15435	4:17:15	76.2	148.4	180.4	60.7	6.70	1.6	
15450	4:17:30	74.8	148.3	180.3	73.0	6.61	1.5	
15465	4:17:45	74.2	148.3	180.3	76.8	6.60	1.5	
15480	4:18:00	74.1	148.3	180.1	80.5	6.60	1.4	
15495	4:18:15	74.7	148.4	180.2	84.2	6.59	1.4	
15510	4:18:30	74.0	148.2	180.0	85.8	6.58	1.4	
15525	4:18:45	74.9	148.1	180.0	86.9	6.60	1.4	
15540	4:19:00	74.4	148.1	180.2	85.3	6.60	1.4	
15555	4:19:15	74.1	148.0	180.2	82.1	6.63	1.4	
15570	4:19:30	73.8	147.9	180.3	79.9	6.63	1.4	
15585	4:19:45	74.3	147.9	180.1	78.9	6.63	1.4	
15600	4:20:00	74.0	147.9	180.1	81.0	6.61	1.4	
15615	4:20:15	74.6	148.0	180.3	82.6	6.60	1.4	
15630	4:20:30	74.9	148.0	180.0	82.4	6.60	1.4	
15645	4:20:45	75.1	147.9	179.9	80.5	6.62	1.4	
15660	4:21:00	75.3	147.9	180.0	79.4	6.63	1.4	
15675	4:21:15	75.3	147.9	179.9	78.3	6.62	1.4	
15690	4:21:30	76.5	147.9	179.8	78.4	6.62	1.4	
15705	4:21:45	76.6	147.8	179.7	78.9	6.62	1.4	
15720	4:22:00	77.1	147.7	179.5	78.4	6.63	1.4	
15735	4:22:15	77.8	147.7	179.6	80.5	6.61	1.4	
15750	4:22:30	77.4	147.7	179.6	77.8	6.63	1.4	
15765	4:22:45	77.8	147.6	179.5	78.4	6.62	1.4	
15780	4:23:00	77.9	147.6	179.6	76.2	6.64	1.4	
15795	4:23:15	78.0	147.7	179.7	73.6	6.65	1.4	
15810	4:23:30	78.3	147.8	179.8	71.7	6.65	1.4	
15825	4:23:45	78.5	147.8	180.0	73.0	6.66	1.4	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
15840	4:24:00	78.5	147.8	179.8	74.1	6.65	1.4
15855	4:24:15	78.2	147.9	179.8	70.9	6.67	1.4
15870	4:24:30	77.8	147.9	180.0	70.4	6.68	1.4
15885	4:24:45	78.4	148.0	179.8	72.0	6.66	1.4
15900	4:25:00	78.2	148.1	179.8	74.1	6.65	1.4
15915	4:25:15	78.2	148.0	179.8	75.2	6.65	1.4
15930	4:25:30	78.5	147.9	179.6	74.1	6.66	1.4
15945	4:25:45	78.0	147.9	179.6	73.6	6.65	1.4
15960	4:26:00	77.6	147.9	179.8	72.2	6.66	1.4
15975	4:26:15	76.9	147.9	179.6	76.8	6.63	1.4
15990	4:26:30	77.8	147.9	180.0	78.4	6.64	1.4
16005	4:26:45	77.1	147.8	179.9	77.8	6.64	1.4
16020	4:27:00	76.5	147.7	179.8	75.2	6.65	1.4
16035	4:27:15	76.8	147.7	179.9	74.1	6.66	1.4
16050	4:27:30	76.8	147.8	179.9	72.5	6.66	1.4
16065	4:27:45	76.7	147.9	180.0	74.1	6.65	1.4
16080	4:28:00	77.0	147.8	179.7	76.8	6.63	1.4
16095	4:28:15	76.9	148.0	179.9	78.4	6.64	1.4
16110	4:28:30	76.9	147.9	179.7	78.4	6.64	1.4
16125	4:28:45	76.8	148.0	179.6	80.9	6.61	1.4
16140	4:29:00	76.6	147.9	179.7	70.1	6.69	1.4
16155	4:29:15	76.9	147.8	179.9	64.0	6.71	1.4
16170	4:29:30	77.9	147.9	180.1	59.7	6.72	1.5
16185	4:29:45	78.8	147.9	180.0	58.7	6.72	1.5
16200	4:30:00	78.7	147.7	180.1	58.1	6.73	1.5
16215	4:30:15	79.0	147.9	180.2	59.2	6.72	1.5
16230	4:30:30	78.9	147.9	180.3	59.7	6.73	1.5
16245	4:30:45	78.9	148.0	180.0	59.7	6.70	1.5
16260	4:31:00	79.3	148.0	180.1	59.2	6.71	1.5
16275	4:31:15	79.2	148.0	180.0	59.2	6.73	1.5
16290	4:31:30	78.8	148.0	180.1	58.7	6.75	1.5
16305	4:31:45	79.2	147.9	179.9	55.5	6.76	1.6
16320	4:32:00	79.9	148.0	180.1	56.5	6.75	1.6
16335	4:32:15	79.7	148.0	180.2	53.9	6.76	1.6
16350	4:32:30	80.1	148.0	180.3	53.9	6.75	1.6
16365	4:32:45	80.0	148.1	180.2	55.5	6.74	1.6
16380	4:33:00	79.7	148.2	180.4	55.5	6.75	1.6
16395	4:33:15	79.6	148.3	180.5	56.0	6.76	1.6
16410	4:33:30	79.7	148.3	180.4	54.9	6.77	1.6
16425	4:33:45	79.9	148.3	180.1	57.6	6.75	1.6
16440	4:34:00	80.0	148.3	180.3	55.5	6.77	1.6
16455	4:34:15	80.1	148.3	180.3	56.0	6.76	1.6
16470	4:34:30	79.9	148.4	180.3	54.9	6.76	1.6
16485	4:34:45	80.0	148.4	180.4	54.9	6.77	1.6
16500	4:35:00	80.0	148.3	180.5	54.4	6.76	1.7
16515	4:35:15	79.7	148.3	180.5	54.9	6.76	1.6
16530	4:35:30	79.6	148.2	180.4	56.0	6.76	1.6
16545	4:35:45	79.8	148.2	180.3	62.9	6.71	1.6

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
16560	4:36:00	79.8	148.3	179.9	74.8	6.66	1.6
16575	4:36:15	79.6	148.2	179.6	85.3	6.61	1.5
16590	4:36:30	79.4	148.2	179.6	90.6	6.58	1.5
16605	4:36:45	79.7	148.1	179.2	86.9	6.60	1.4
16620	4:37:00	80.0	148.2	179.2	86.3	6.61	1.5
16635	4:37:15	80.0	148.1	179.2	87.9	6.61	1.5
16650	4:37:30	80.3	148.0	179.1	89.0	6.60	1.4
16665	4:37:45	80.7	147.8	178.9	88.5	6.60	1.4
16680	4:38:00	81.3	147.7	179.0	85.3	6.61	1.5
16695	4:38:15	81.3	147.7	179.4	86.3	6.60	1.5
16710	4:38:30	81.4	147.5	178.7	87.9	6.58	1.5
16725	4:38:45	81.7	147.6	178.7	87.4	6.59	1.5
16740	4:39:00	82.0	147.4	178.8	90.6	6.58	1.5
16755	4:39:15	82.1	147.4	178.6	92.7	6.56	1.4
16770	4:39:30	81.9	147.3	178.5	91.1	6.57	1.4
16785	4:39:45	81.7	147.3	178.3	90.6	6.58	1.4
16800	4:40:00	81.8	147.1	178.3	92.2	6.57	1.4
16815	4:40:15	81.9	147.1	178.2	89.0	6.59	1.4
16830	4:40:30	82.0	147.0	178.5	85.3	6.62	1.4
16845	4:40:45	81.6	146.9	178.4	87.4	6.60	1.5
16860	4:41:00	81.2	146.9	178.5	76.2	6.64	1.4
16875	4:41:15	80.4	146.8	178.4	68.8	6.70	1.5
16890	4:41:30	80.7	146.8	178.4	67.2	6.70	1.5
16905	4:41:45	81.1	146.8	178.6	63.4	6.70	1.6
16920	4:42:00	80.6	146.8	178.5	61.8	6.71	1.6
16935	4:42:15	81.1	146.8	178.3	62.4	6.71	1.6
16950	4:42:30	80.3	146.8	178.3	62.9	6.72	1.5
16965	4:42:45	80.0	146.9	178.2	60.2	6.72	1.5
16980	4:43:00	80.1	146.9	178.2	61.3	6.72	1.6
16995	4:43:15	80.1	147.1	178.3	62.4	6.69	1.6
17010	4:43:30	80.3	147.0	178.5	61.3	6.70	1.5
17025	4:43:45	80.3	147.0	178.1	63.4	6.68	1.5
17040	4:44:00	80.2	146.9	178.2	64.5	6.68	1.5
17055	4:44:15	80.2	146.9	178.1	67.2	6.68	1.5
17070	4:44:30	80.8	146.9	178.2	68.8	6.67	1.5
17085	4:44:45	80.4	146.8	178.2	65.0	6.70	1.5
17100	4:45:00	80.5	146.8	178.1	65.6	6.68	1.5
17115	4:45:15	80.8	146.7	178.2	65.6	6.68	1.5
17130	4:45:30	80.3	146.7	178.2	61.8	6.70	1.5
17145	4:45:45	80.0	146.7	178.2	63.4	6.70	1.5
17160	4:46:00	79.2	146.8	178.0	62.4	6.71	1.5
17175	4:46:15	79.1	146.7	178.0	62.9	6.69	1.5
17190	4:46:30	78.0	146.9	178.0	64.0	6.68	1.5
17205	4:46:45	77.0	146.9	178.1	65.0	6.68	1.5
17220	4:47:00	76.8	146.9	178.1	65.0	6.68	1.5
17235	4:47:15	77.3	146.8	178.3	65.6	6.67	1.5
							Start Emissions
							1st Minute
							2nd Minute
							3rd Minute / EOT - Low Fire - #1
							CO2 (Avg) % =
							6.67
							NOx (Avg) ppm =
							1.5
							CO (Max) ppm =
							92.7
							Ambient (Avg) F =
							78.2
							T_In (Avg) F =
							147.9
							T_Del (Avg) F =
							179.8

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
17250	4:47:30	77.5	146.9	178.2	67.7	6.67	1.5
17265	4:47:45	78.5	146.9	177.9	69.8	6.66	1.5
17280	4:48:00	78.6	146.8	178.1	68.8	6.66	1.5
17295	4:48:15	79.1	146.9	178.1	66.1	6.67	1.5
17310	4:48:30	79.1	146.8	178.0	66.6	6.68	1.5
17325	4:48:45	79.4	146.9	178.3	75.4	6.23	1.5
17340	4:49:00	79.0	146.9	165.7	9.1	0.45	1.5
17355	4:49:15	78.8	123.7	155.7	0.0	0.17	1.0
17370	4:49:30	78.7	95.0	151.1	0.0	0.13	0.4
17385	4:49:45	78.6	83.3	149.4	0.0	0.11	0.4
17400	4:50:00	79.1	78.2	148.6	0.0	0.10	0.4
17415	4:50:15	79.9	75.6	148.1	0.0	0.09	0.4
17430	4:50:30	80.0	74.0	144.9	0.0	0.09	0.4
17445	4:50:45	80.2	72.9	134.4	0.0	0.09	0.4
17460	4:51:00	80.2	72.2	122.6	0.0	0.08	0.4
17475	4:51:15	80.3	71.5	108.1	0.0	0.08	0.4
17490	4:51:30	80.2	71.1	96.3	0.0	0.08	0.4
17505	4:51:45	80.4	70.7	87.9	0.0	0.08	0.3
17520	4:52:00	80.7	70.4	82.7	0.0	0.07	0.3
17535	4:52:15	79.8	70.1	79.4	0.0	0.07	0.3
17550	4:52:30	79.6	69.9	77.2	0.0	0.07	0.3
17565	4:52:45	79.2	69.8	75.6	0.0	0.07	0.3
17580	4:53:00	78.7	69.6	74.6	0.0	0.07	0.3
17595	4:53:15	78.7	69.5	73.8	0.0	0.07	0.3
17610	4:53:30	78.2	69.3	73.1	0.0	0.06	0.2
17625	4:53:45	78.7	69.2	72.7	0.0	0.06	0.2
17640	4:54:00	78.4	69.0	72.3	0.0	0.06	0.2
17655	4:54:15	78.5	69.0	72.0	0.0	0.06	0.2
17670	4:54:30	78.5	68.9	71.7	0.0	0.06	0.2
17685	4:54:45	78.5	68.8	71.5	0.0	0.06	0.2
17700	4:55:00	77.9	68.8	71.3	0.0	0.06	0.2
17715	4:55:15	76.9	68.7	71.1	0.0	0.06	0.2
17730	4:55:30	76.4	68.7	71.0	0.0	0.06	0.2
17745	4:55:45	76.5	68.7	70.9	0.0	0.05	0.2
17760	4:56:00	77.4	68.6	70.7	0.0	0.05	0.2
17775	4:56:15	77.7	68.5	70.5	0.0	0.05	0.2
17790	4:56:30	77.9	68.4	70.4	0.0	0.05	0.2
17805	4:56:45	78.8	68.3	70.2	0.0	0.05	0.2
17820	4:57:00	79.2	68.2	70.2	0.0	0.05	0.1
17835	4:57:15	79.7	68.1	70.0	0.0	0.05	0.1
17850	4:57:30	80.0	68.0	69.9	0.0	0.05	0.1
17865	4:57:45	80.3	67.9	69.9	0.0	0.05	0.1
17880	4:58:00	80.6	67.8	69.7	0.0	0.05	0.2
17895	4:58:15	80.1	67.7	69.5	0.0	0.06	0.2
17910	4:58:30	80.7	67.6	69.5	0.0	0.06	0.2
17925	4:58:45	80.5	67.6	69.4	0.0	0.06	0.2
17940	4:59:00	81.1	67.5	69.5	0.0	0.06	0.2
17955	4:59:15	80.8	68.0	69.6	0.0	0.07	0.2

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
17970	4:59:30	80.9	79.1	69.6	0.0	0.07	0.3
17985	4:59:45	81.2	79.0	69.6	0.0	0.07	0.4
18000	5:00:00	81.5	75.6	69.5	0.0	0.06	0.3
18015	5:00:15	82.3	73.1	69.4	0.0	0.07	0.2
18030	5:00:30	82.0	71.7	69.2	0.0	0.08	0.2
18045	5:00:45	81.5	70.8	69.5	0.0	0.09	0.2
18060	5:01:00	82.0	70.3	71.4	0.0	0.09	0.4
18075	5:01:15	81.7	69.9	73.5	0.0	0.08	0.5
18090	5:01:30	81.7	69.6	74.7	0.0	0.08	0.4
18105	5:01:45	81.3	69.5	75.1	0.0	0.07	0.3
18120	5:02:00	81.3	69.7	74.9	0.0	0.07	0.2
18135	5:02:15	80.9	70.4	76.4	19.8	0.07	0.2
18150	5:02:30	80.4	71.2	87.9	113.2	6.44	0.7
18165	5:02:45	80.0	71.8	100.6	62.9	7.32	1.1
18180	5:03:00	78.4	72.2	108.3	41.1	7.53	2.3
18195	5:03:15	78.0	72.8	112.0	30.4	7.57	2.7
18210	5:03:30	77.5	75.7	113.4	29.4	7.54	3.1
18225	5:03:45	77.4	81.0	114.2	26.7	7.51	3.1
18240	5:04:00	77.2	86.6	113.3	31.0	7.45	3.0
18255	5:04:15	76.9	90.7	112.6	32.6	7.40	2.9
18270	5:04:30	77.8	93.7	111.7	32.0	7.33	2.7
18285	5:04:45	78.2	95.5	108.3	109.7	7.06	2.6
18300	5:05:00	78.8	96.5	105.7	368.2	6.04	2.4
18315	5:05:15	79.7	97.1	105.3	463.7	5.84	1.7
18330	5:05:30	79.8	97.7	106.9	1050.1	5.85	0.9
18345	5:05:45	79.8	97.3	109.7	1050.2	5.97	0.9
18360	5:06:00	80.0	96.3	112.1	1050.3	7.27	3.4
18375	5:06:15	80.4	95.4	113.8	1050.3	5.55	9.1
18390	5:06:30	80.2	95.3	116.0	1050.3	5.62	8.3
18405	5:06:45	80.1	96.0	117.7	1050.3	7.12	1.7
18420	5:07:00	80.4	97.2	118.4	1050.3	5.53	15.7
18435	5:07:15	80.8	98.3	120.1	1050.3	6.40	8.8
18450	5:07:30	81.0	99.5	121.3	1050.3	7.38	7.8
18465	5:07:45	81.1	100.7	121.4	1016.6	6.91	13.7
18480	5:08:00	81.0	101.8	121.1	334.2	6.77	3.4
18495	5:08:15	81.7	102.8	120.2	223.6	6.65	2.8
18510	5:08:30	82.0	103.7	119.8	215.7	6.53	2.0
18525	5:08:45	81.4	104.3	120.3	209.8	6.47	1.8
18540	5:09:00	81.1	104.7	120.5	203.4	6.50	1.6
18555	5:09:15	81.3	104.7	121.1	207.6	6.44	1.6
18570	5:09:30	81.5	104.6	121.7	242.0	6.34	1.5
18585	5:09:45	82.0	104.7	122.1	263.4	6.26	1.4
18600	5:10:00	81.6	104.8	122.6	314.7	6.15	1.3
18615	5:10:15	81.6	104.9	123.9	1050.1	6.10	1.3
18630	5:10:30	81.0	105.0	125.4	1050.2	6.69	1.7
18645	5:10:45	80.1	105.4	125.7	1050.2	6.52	2.1
18660	5:11:00	80.1	105.7	126.0	1050.2	6.32	5.4
18675	5:11:15	80.2	106.2	125.5	1050.3	6.19	4.1

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
18690	5:11:30	80.7	106.8	125.4	1050.3	6.19	2.6
18705	5:11:45	81.1	107.4	125.2	1050.3	6.11	2.4
18720	5:12:00	81.2	107.9	125.2	1050.3	6.12	1.7
18735	5:12:15	80.4	108.1	125.3	1050.3	6.04	1.6
18750	5:12:30	81.0	108.2	126.1	1050.3	5.37	1.1
18765	5:12:45	81.2	108.3	126.2	1050.3	5.27	0.7
18780	5:13:00	81.2	108.4	126.2	1050.3	5.30	0.3
18795	5:13:15	81.6	108.5	120.7	1050.2	2.96	0.3
18810	5:13:30	81.4	108.5	117.0	1050.3	0.37	1.5
18825	5:13:45	81.7	108.7	114.9	1050.3	0.70	2.8
18840	5:14:00	82.0	108.8	119.0	1050.3	2.58	3.4
18855	5:14:15	81.3	107.7	122.5	1050.3	5.74	3.6
18870	5:14:30	80.8	106.0	117.8	1050.3	0.74	3.3
18885	5:14:45	80.2	104.4	116.2	1050.3	2.48	2.8
18900	5:15:00	80.0	103.9	114.6	1050.3	0.21	3.4
18915	5:15:15	80.6	104.8	114.2	1050.3	1.26	2.6
18930	5:15:30	81.4	104.9	116.8	1050.3	1.20	1.6
18945	5:15:45	81.2	104.1	125.4	1050.3	6.05	1.5
18960	5:16:00	80.5	103.4	131.7	1050.3	8.86	2.5
18975	5:16:15	80.6	102.7	136.0	1038.0	9.80	9.7
18990	5:16:30	80.4	102.9	137.8	300.3	9.95	24.6
19005	5:16:45	80.4	104.7	139.8	148.0	10.02	30.5
19020	5:17:00	80.9	107.8	139.4	98.7	10.08	30.5
19035	5:17:15	80.9	110.9	138.1	73.0	9.64	30.5
19050	5:17:30	81.3	113.3	136.0	59.4	9.54	30.5
19065	5:17:45	81.1	115.2	134.2	49.1	9.64	25.2
19080	5:18:00	81.1	116.3	133.2	42.1	9.71	25.1
19095	5:18:15	81.3	116.7	132.7	36.8	9.79	26.1
19110	5:18:30	81.8	116.6	132.8	32.6	9.87	27.7
19125	5:18:45	81.8	115.9	133.3	28.8	9.82	28.4
19140	5:19:00	82.5	115.4	135.2	25.6	9.83	28.1
19155	5:19:15	82.9	114.8	136.6	23.5	9.89	28.7
19170	5:19:30	83.1	114.5	138.1	21.4	9.91	30.2
19185	5:19:45	82.5	114.6	138.7	17.7	9.26	30.5
19200	5:20:00	82.2	115.0	138.8	14.5	8.66	28.0
19215	5:20:15	82.4	115.6	139.4	12.3	8.56	20.7
19230	5:20:30	81.9	116.5	140.0	11.3	8.56	13.2
19245	5:20:45	82.2	117.1	139.6	10.2	8.58	12.9
19260	5:21:00	82.7	117.5	139.5	9.1	8.61	12.6
19275	5:21:15	82.0	118.0	138.6	8.1	8.59	12.6
19290	5:21:30	82.5	118.4	138.2	7.0	8.55	12.4
19305	5:21:45	83.0	118.6	138.3	5.9	8.48	12.1
19320	5:22:00	82.3	118.6	138.4	5.4	8.48	11.2
19335	5:22:15	82.6	118.6	138.8	4.9	8.48	11.2
19350	5:22:30	82.7	118.3	140.1	4.4	8.54	11.5
19365	5:22:45	82.9	118.2	142.3	4.9	8.49	11.7
19380	5:23:00	82.7	118.2	143.9	4.9	8.52	11.9
19395	5:23:15	82.1	118.4	145.0	4.9	8.55	11.9

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
19410	5:23:30	81.7	118.8	145.5	4.3	8.54	12.1
19425	5:23:45	81.1	119.6	146.2	3.8	8.55	12.3
19440	5:24:00	81.5	120.6	146.2	3.3	8.55	12.1
19455	5:24:15	81.8	121.4	146.2	2.8	8.52	11.9
19470	5:24:30	82.0	122.1	146.4	2.8	8.53	11.7
19485	5:24:45	81.8	122.7	146.6	2.2	8.55	11.6
19500	5:25:00	80.8	123.0	147.0	1.7	8.55	11.7
19515	5:25:15	81.6	123.3	147.1	1.7	8.55	11.7
19530	5:25:30	82.1	123.5	147.6	1.7	8.55	11.7
19545	5:25:45	81.9	123.7	147.9	1.2	8.56	11.7
19560	5:26:00	81.8	124.0	148.4	1.2	8.57	11.7
19575	5:26:15	81.6	123.8	148.7	1.2	8.55	11.8
19590	5:26:30	82.3	124.1	148.2	0.1	7.85	11.6
19605	5:26:45	82.4	124.3	148.1	0.0	7.44	11.4
19620	5:27:00	82.5	124.5	148.4	0.0	7.48	5.7
19635	5:27:15	80.8	124.8	148.6	0.0	7.53	5.7
19650	5:27:30	81.5	124.8	148.9	0.6	7.51	5.6
19665	5:27:45	82.1	124.8	148.9	0.6	7.51	5.4
19680	5:28:00	81.3	124.8	148.8	2.2	7.48	5.3
19695	5:28:15	81.0	124.9	149.2	2.2	7.51	5.2
19710	5:28:30	81.0	125.1	149.7	1.7	7.55	5.1
19725	5:28:45	80.7	125.2	149.7	1.7	7.54	5.1
19740	5:29:00	81.4	125.3	150.1	1.2	7.52	5.1
19755	5:29:15	81.6	125.4	150.3	2.2	7.53	5.0
19770	5:29:30	81.2	125.6	150.1	1.7	7.52	4.9
19785	5:29:45	81.1	125.8	150.3	1.7	7.51	4.9
19800	5:30:00	81.5	126.1	150.2	0.6	7.53	4.7
19815	5:30:15	81.4	126.3	150.6	1.2	7.49	4.7
19830	5:30:30	82.2	126.5	150.7	1.2	7.50	4.6
19845	5:30:45	82.4	126.4	150.7	1.2	7.51	4.5
19860	5:31:00	81.3	126.6	150.8	1.7	7.53	4.6
19875	5:31:15	80.8	126.6	150.9	1.7	7.52	4.6
19890	5:31:30	81.3	126.8	151.1	1.7	7.50	4.5
19905	5:31:45	81.3	126.8	151.3	0.6	7.50	4.4
19920	5:32:00	81.5	126.9	151.5	0.1	7.54	4.4
19935	5:32:15	81.6	127.0	151.7	0.1	7.53	4.4
19950	5:32:30	81.7	127.0	151.6	0.0	7.55	4.5
19965	5:32:45	81.5	127.0	151.6	0.1	7.53	4.4
19980	5:33:00	81.9	127.2	151.7	0.1	7.54	4.3
19995	5:33:15	82.5	127.2	151.8	0.1	7.54	4.3
20010	5:33:30	82.7	127.4	152.0	0.1	7.54	4.3
20025	5:33:45	82.8	127.5	151.9	0.1	7.54	4.3
20040	5:34:00	82.8	127.4	151.7	0.0	7.54	4.3
20055	5:34:15	82.8	127.5	151.9	0.0	7.52	4.3
20070	5:34:30	83.6	127.6	151.9	0.0	7.51	4.2
20085	5:34:45	84.0	127.6	152.0	0.6	7.52	4.2
20100	5:35:00	82.8	127.5	151.9	0.6	7.53	4.2
20115	5:35:15	82.4	127.6	152.1	0.1	7.56	4.2

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
20130	5:35:30	83.4	127.6	153.6	0.0	7.62	4.3
20145	5:35:45	83.2	127.7	155.5	0.0	7.80	4.3
20160	5:36:00	83.9	127.9	156.0	0.0	7.84	5.2
20175	5:36:15	84.4	128.0	156.8	0.0	7.86	5.3
20190	5:36:30	84.0	128.4	157.2	0.0	7.87	5.4
20205	5:36:45	83.7	129.0	157.5	0.0	7.90	5.5
20220	5:37:00	84.2	129.8	157.9	0.0	7.92	5.6
20235	5:37:15	84.3	130.4	158.0	0.0	7.93	5.7
20250	5:37:30	84.4	130.8	158.1	0.0	7.93	5.7
20265	5:37:45	84.3	131.2	158.4	0.0	7.92	5.7
20280	5:38:00	83.5	131.7	158.3	0.0	7.91	5.6
20295	5:38:15	82.5	131.9	158.6	0.0	7.92	5.7
20310	5:38:30	82.6	132.1	158.7	0.0	7.86	5.6
20325	5:38:45	82.7	132.3	159.0	0.0	7.82	5.6
20340	5:39:00	83.2	132.5	159.2	0.0	7.82	5.3
20355	5:39:15	83.6	132.6	159.9	0.0	7.84	5.3
20370	5:39:30	83.6	132.7	160.1	0.0	7.87	5.3
20385	5:39:45	83.2	132.9	160.7	0.0	7.87	5.4
20400	5:40:00	82.2	133.0	161.0	0.0	7.87	5.5
20415	5:40:15	82.2	133.3	161.4	0.0	7.86	5.5
20430	5:40:30	82.2	133.6	161.9	0.0	7.84	5.5
20445	5:40:45	81.6	133.9	162.6	0.0	7.88	5.4
20460	5:41:00	81.8	134.2	162.5	0.0	7.88	5.6
20475	5:41:15	82.4	134.6	163.1	0.0	7.89	5.6
20490	5:41:30	82.6	134.8	163.5	0.0	7.88	5.7
20505	5:41:45	82.8	135.0	163.9	0.0	7.90	5.9
20520	5:42:00	82.8	135.2	164.0	0.0	7.92	6.0
20535	5:42:15	82.4	135.4	164.5	0.0	7.93	6.0
20550	5:42:30	81.7	135.6	165.0	0.0	7.92	5.9
20565	5:42:45	81.6	135.9	165.3	0.0	7.93	5.9
20580	5:43:00	81.9	136.3	165.9	0.0	7.95	6.0
20595	5:43:15	82.2	136.5	166.3	0.0	7.95	6.1
20610	5:43:30	82.6	136.5	166.6	0.0	7.82	6.2
20625	5:43:45	82.6	136.9	166.5	0.0	7.67	6.2
20640	5:44:00	82.8	137.2	167.0	0.0	7.68	4.9
20655	5:44:15	82.9	137.7	167.4	0.0	7.67	4.9
20670	5:44:30	82.5	138.0	167.7	0.0	7.70	4.9
20685	5:44:45	82.7	138.1	168.3	0.0	7.72	4.9
20700	5:45:00	82.7	138.3	169.1	0.0	7.71	5.0
20715	5:45:15	82.2	138.5	169.7	0.0	7.76	5.0
20730	5:45:30	81.8	138.6	170.0	0.0	7.77	5.1
20745	5:45:45	81.8	138.9	170.6	0.0	7.78	5.2
20760	5:46:00	82.4	139.3	171.3	0.0	7.79	5.2
20775	5:46:15	82.5	139.4	171.9	0.0	7.79	5.2
20790	5:46:30	82.8	139.8	171.7	0.0	7.68	5.1
20805	5:46:45	82.8	140.2	171.8	0.0	7.64	5.0
20820	5:47:00	83.0	140.5	171.7	0.0	7.63	4.7
20835	5:47:15	82.7	140.6	172.1	0.0	7.66	4.7

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
20850	5:47:30	82.3	140.3	172.4	0.0	7.69	4.7
20865	5:47:45	82.5	140.2	173.1	0.0	7.69	4.7
20880	5:48:00	82.4	140.3	173.4	0.0	7.72	4.8
20895	5:48:15	82.5	140.3	174.2	0.0	7.75	4.9
20910	5:48:30	83.2	140.3	174.8	0.0	7.76	4.9
20925	5:48:45	83.2	140.6	175.0	0.0	7.78	4.9
20940	5:49:00	83.6	140.8	174.3	0.0	7.65	5.0
20955	5:49:15	83.5	141.0	173.8	0.0	7.61	4.7
20970	5:49:30	83.0	141.4	173.7	0.0	7.63	4.5
20985	5:49:45	82.9	141.8	173.7	0.0	7.65	4.5
21000	5:50:00	82.0	142.0	174.1	0.0	7.64	4.5
21015	5:50:15	83.0	142.0	174.3	0.0	7.66	4.5
21030	5:50:30	82.9	141.9	175.0	0.0	7.68	4.5
21045	5:50:45	83.8	141.9	175.0	0.0	7.63	4.6
21060	5:51:00	83.7	142.0	175.2	0.0	7.62	4.4
21075	5:51:15	83.6	142.0	174.6	0.0	7.50	4.4
21090	5:51:30	83.5	142.1	173.8	0.0	7.42	4.1
21105	5:51:45	83.0	142.3	173.9	0.0	7.41	3.8
21120	5:52:00	82.9	142.4	173.8	0.0	7.41	3.7
21135	5:52:15	82.6	142.5	174.0	0.0	7.43	3.7
21150	5:52:30	82.6	142.4	174.3	0.0	7.42	3.7
21165	5:52:45	82.6	142.2	174.3	0.0	7.43	3.7
21180	5:53:00	83.0	142.1	174.5	0.0	7.45	3.7
21195	5:53:15	83.1	142.0	174.6	0.0	7.46	3.7
21210	5:53:30	82.8	142.0	175.1	0.0	7.51	3.8
21225	5:53:45	82.7	142.2	175.2	0.0	7.49	3.8
21240	5:54:00	82.6	142.5	175.3	0.0	7.49	3.8
21255	5:54:15	82.4	142.9	175.0	0.0	7.43	3.8
21270	5:54:30	82.6	143.1	174.6	0.0	7.35	3.7
21285	5:54:45	82.8	143.4	174.7	0.0	7.38	3.5
21300	5:55:00	82.5	143.6	174.6	0.0	7.39	3.5
21315	5:55:15	83.0	143.6	174.5	0.0	7.40	3.5
21330	5:55:30	83.5	143.6	174.9	0.0	7.43	3.5
21345	5:55:45	82.7	143.4	174.8	0.0	7.43	3.5
21360	5:56:00	82.7	143.3	175.0	0.0	7.43	3.6
21375	5:56:15	82.9	143.4	175.3	0.0	7.42	3.6
21390	5:56:30	83.1	143.4	175.6	0.0	7.42	3.5
21405	5:56:45	82.7	143.4	175.7	0.0	7.43	3.4
21420	5:57:00	82.7	143.4	176.1	0.0	7.45	3.5
21435	5:57:15	83.0	143.6	176.3	0.0	7.45	3.5
21450	5:57:30	82.5	143.7	176.2	0.0	7.47	3.6
21465	5:57:45	82.3	143.8	176.1	0.0	7.43	3.6
21480	5:58:00	82.4	144.0	176.0	0.0	7.40	3.4
21495	5:58:15	82.8	144.1	175.8	0.0	7.40	3.4
21510	5:58:30	82.6	144.2	175.7	0.0	7.40	3.4
21525	5:58:45	82.8	144.1	175.8	0.0	7.43	3.4
21540	5:59:00	82.8	144.2	176.0	0.0	7.44	3.4
21555	5:59:15	82.4	144.3	176.1	0.0	7.42	3.4

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
21570	5:59:30	82.9	144.2	176.1	0.0	7.42	3.4
21585	5:59:45	82.2	144.3	176.5	0.0	7.42	3.4
21600	6:00:00	82.4	144.3	176.6	0.0	7.43	3.4
21615	6:00:15	82.6	144.3	176.7	0.0	7.42	3.4
21630	6:00:30	83.0	144.4	176.9	0.0	7.43	3.4
21645	6:00:45	82.8	144.6	177.2	0.0	7.45	3.4
21660	6:01:00	83.1	144.7	177.1	0.0	7.46	3.5
21675	6:01:15	83.0	144.7	177.1	0.0	7.47	3.5
21690	6:01:30	82.9	144.8	177.3	0.0	7.46	3.5
21705	6:01:45	83.1	144.7	177.2	0.0	7.47	3.5
21720	6:02:00	83.1	144.8	177.3	0.0	7.47	3.5
21735	6:02:15	83.2	144.9	177.3	0.0	7.47	3.5
21750	6:02:30	83.1	145.0	176.6	0.0	7.29	3.4
21765	6:02:45	82.6	145.1	176.0	0.0	7.15	3.3
21780	6:03:00	83.0	145.2	175.9	1.2	7.12	2.8
21795	6:03:15	83.1	145.2	175.6	1.2	7.13	2.7
21810	6:03:30	82.0	145.1	175.6	2.2	7.13	2.7
21825	6:03:45	83.0	144.9	175.5	2.2	7.15	2.7
21840	6:04:00	83.5	144.7	175.7	2.7	7.13	2.7
21855	6:04:15	83.1	144.3	175.8	2.2	7.13	2.7
21870	6:04:30	83.5	144.3	176.0	3.3	7.16	2.7
21885	6:04:45	83.2	144.1	176.2	2.2	7.16	2.7
21900	6:05:00	82.9	144.1	176.7	0.0	7.30	2.7
21915	6:05:15	82.5	144.2	177.4	0.0	7.37	2.9
21930	6:05:30	82.1	144.2	177.8	0.0	7.37	3.1
21945	6:05:45	82.1	144.2	178.0	0.0	7.38	3.1
21960	6:06:00	82.8	144.3	178.2	0.0	7.38	3.2
21975	6:06:15	82.9	144.6	177.9	0.0	7.39	3.1
21990	6:06:30	82.6	144.9	178.0	0.0	7.38	3.2
22005	6:06:45	81.9	145.1	178.1	0.0	7.36	3.2
22020	6:07:00	82.2	145.4	178.4	0.0	7.36	3.1
22035	6:07:15	82.1	145.4	178.2	0.0	7.39	3.1
22050	6:07:30	83.0	145.4	178.4	0.0	7.38	3.1
22065	6:07:45	83.2	145.5	178.4	0.0	7.41	3.1
22080	6:08:00	83.8	145.5	178.6	0.0	7.41	3.2
22095	6:08:15	83.9	145.5	178.7	0.0	7.41	3.2
22110	6:08:30	84.3	145.5	179.1	0.0	7.42	3.3
22125	6:08:45	84.4	145.6	178.8	0.0	7.38	3.3
22140	6:09:00	84.2	145.7	178.3	0.0	7.36	3.3
22155	6:09:15	83.2	145.7	178.0	0.0	7.35	3.2
22170	6:09:30	83.5	145.9	178.3	0.0	7.38	3.2
22185	6:09:45	82.9	146.0	178.3	0.0	7.37	3.2
22200	6:10:00	82.8	146.1	178.1	0.0	7.37	3.2
22215	6:10:15	83.0	146.0	178.2	0.0	7.36	3.2
22230	6:10:30	82.5	145.9	178.7	0.0	7.37	3.2
22245	6:10:45	83.0	145.9	178.6	0.0	7.35	3.2
22260	6:11:00	82.5	146.0	178.2	0.6	7.13	3.2
22275	6:11:15	82.8	146.0	178.2	2.2	7.11	2.9

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22290	6:11:30	83.0	146.2	178.2	2.2	7.12	2.6
22305	6:11:45	83.4	146.3	178.3	2.7	7.13	2.6
22320	6:12:00	83.0	146.2	178.8	2.2	7.14	2.6
22335	6:12:15	82.8	146.2	178.4	3.3	7.13	2.6
22350	6:12:30	82.9	146.0	178.5	2.7	7.13	2.6
22365	6:12:45	83.0	146.1	178.5	2.7	7.11	2.6
22380	6:13:00	82.9	146.1	178.4	2.7	7.15	2.5
22395	6:13:15	82.8	146.1	178.6	1.7	7.16	2.5
22410	6:13:30	83.7	146.2	178.6	2.7	7.15	2.6
22425	6:13:45	84.0	146.1	177.9	9.1	7.02	2.6
22440	6:14:00	83.0	146.1	177.2	12.3	6.95	2.3
22455	6:14:15	82.7	146.0	176.9	15.5	6.95	2.3
22470	6:14:30	82.5	146.2	176.9	15.0	6.98	2.2
22485	6:14:45	82.6	146.0	176.7	15.0	6.96	2.2
22500	6:15:00	82.9	145.8	176.7	16.6	6.96	2.2
22515	6:15:15	82.4	145.8	176.7	16.1	6.96	2.2
22530	6:15:30	82.8	145.6	176.8	15.5	6.96	2.2
22545	6:15:45	82.4	145.4	176.8	16.1	6.98	2.2
22560	6:16:00	82.8	145.3	177.0	14.5	7.01	2.2
22575	6:16:15	82.5	145.1	177.0	13.9	7.00	2.2
22590	6:16:30	82.9	145.1	177.4	10.7	7.08	2.2
22605	6:16:45	83.1	144.9	178.0	4.4	7.20	2.2
22620	6:17:00	83.0	145.1	178.5	1.1	7.21	2.5
22635	6:17:15	82.5	145.1	178.6	0.6	7.22	2.6
22650	6:17:30	82.9	145.2	178.7	0.6	7.22	2.6
22665	6:17:45	82.7	145.4	178.5	0.1	7.21	2.6
22680	6:18:00	82.6	145.6	178.4	0.1	7.23	2.6
22695	6:18:15	82.8	145.8	178.9	0.1	7.24	2.6
22710	6:18:30	83.2	146.0	178.5	0.0	7.24	2.6
22725	6:18:45	83.4	146.3	178.6	0.0	7.24	2.6
22740	6:19:00	83.2	146.3	178.7	0.0	7.25	2.6
22755	6:19:15	83.5	146.3	178.7	1.7	7.22	2.7
22770	6:19:30	83.2	146.4	178.6	8.1	7.08	2.5
22785	6:19:45	82.4	146.5	178.4	12.9	7.05	2.4
22800	6:20:00	83.1	146.4	178.6	13.9	7.02	2.3
22815	6:20:15	83.3	146.3	178.5	13.9	7.01	2.3
22830	6:20:30	82.9	146.3	178.6	12.9	7.03	2.2
22845	6:20:45	82.8	146.1	178.8	14.5	7.04	2.2
22860	6:21:00	83.0	146.1	178.9	15.5	7.05	2.3
22875	6:21:15	83.3	146.0	178.9	14.5	7.06	2.3
22890	6:21:30	83.1	146.0	178.9	14.5	7.04	2.2
22905	6:21:45	82.6	146.0	178.9	14.5	7.02	2.2
22920	6:22:00	81.5	146.1	179.0	12.9	7.03	2.2
22935	6:22:15	81.4	146.1	179.0	12.9	7.00	2.2
22950	6:22:30	81.4	146.1	179.0	11.3	7.01	2.2
22965	6:22:45	80.9	146.2	178.9	13.9	7.01	2.2
22980	6:23:00	81.0	146.2	179.2	13.9	6.99	2.2
22995	6:23:15	81.6	146.2	179.4	12.3	7.03	2.2

Start Low Fire Equilibrium - #2

End Low Fire Equilibrium - #2

Start Test - Low Fire - #2

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
23010	6:23:30	82.0	146.2	179.3	10.7	7.03	2.2
23025	6:23:45	82.0	146.2	179.5	10.7	7.04	2.2
23040	6:24:00	82.4	146.2	179.6	10.2	7.05	2.2
23055	6:24:15	82.3	146.3	179.4	10.2	7.07	2.2
23070	6:24:30	82.7	146.4	179.7	10.7	7.06	2.2
23085	6:24:45	82.9	146.5	179.4	11.8	7.07	2.2
23100	6:25:00	82.8	146.6	179.6	11.4	7.07	2.3
23115	6:25:15	82.3	146.6	179.6	10.7	7.03	2.2
23130	6:25:30	82.1	146.6	179.6	10.2	7.05	2.2
23145	6:25:45	82.4	146.6	179.8	10.7	7.04	2.2
23160	6:26:00	82.9	146.6	179.9	10.7	7.03	2.2
23175	6:26:15	82.7	146.7	179.7	10.2	7.04	2.2
23190	6:26:30	82.6	146.7	179.8	9.7	7.07	2.2
23205	6:26:45	82.8	146.7	180.0	9.1	7.08	2.2
23220	6:27:00	82.8	146.8	180.2	10.7	7.10	2.2
23235	6:27:15	82.9	147.0	180.2	9.7	7.10	2.2
23250	6:27:30	83.5	147.0	180.5	9.1	7.09	2.3
23265	6:27:45	83.5	147.1	180.4	9.7	7.09	2.3
23280	6:28:00	83.4	147.2	180.5	8.1	7.10	2.3
23295	6:28:15	83.5	147.3	180.4	8.1	7.11	2.3
23310	6:28:30	83.4	147.5	180.7	7.0	7.11	2.3
23325	6:28:45	83.4	147.5	180.9	7.0	7.12	2.3
23340	6:29:00	83.4	147.6	180.9	5.9	7.12	2.3
23355	6:29:15	82.9	147.6	180.9	8.1	7.12	2.3
23370	6:29:30	82.7	147.6	181.1	8.5	7.12	2.3
23385	6:29:45	82.8	147.6	181.0	7.5	7.12	2.3
23400	6:30:00	83.0	147.8	181.2	6.5	7.13	2.3
23415	6:30:15	83.4	147.7	181.3	7.5	7.11	2.3
23430	6:30:30	83.6	147.5	181.4	8.1	7.11	2.3
23445	6:30:45	83.4	147.6	181.2	7.5	7.11	2.3
23460	6:31:00	82.7	147.7	181.3	8.1	7.10	2.3
23475	6:31:15	82.9	147.6	180.8	7.5	7.11	2.3
23490	6:31:30	82.6	147.7	181.1	7.5	7.11	2.3
23505	6:31:45	82.5	147.7	180.9	7.0	7.11	2.3
23520	6:32:00	82.9	147.8	181.4	4.3	7.13	2.3
23535	6:32:15	82.8	147.8	181.2	4.9	7.13	2.3
23550	6:32:30	83.0	147.8	180.9	9.7	7.06	2.3
23565	6:32:45	82.3	147.9	180.6	12.9	7.01	2.3
23580	6:33:00	82.6	147.9	180.3	13.9	7.00	2.1
23595	6:33:15	82.9	148.0	180.2	15.0	7.01	2.1
23610	6:33:30	82.8	148.1	180.5	15.0	7.01	2.1
23625	6:33:45	82.8	147.8	180.2	14.5	7.01	2.1
23640	6:34:00	82.6	147.7	180.4	15.0	7.02	2.1
23655	6:34:15	82.6	147.6	180.1	14.4	7.02	2.1
23670	6:34:30	82.9	147.4	180.3	13.9	7.01	2.1
23685	6:34:45	82.8	147.4	180.4	15.5	7.00	2.1
23700	6:35:00	83.1	147.3	180.2	16.6	6.99	2.1
23715	6:35:15	83.0	147.3	180.2	17.1	6.99	2.1

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
23730	6:35:30	83.4	147.3	180.1	17.1	7.00	2.1
23745	6:35:45	82.5	147.4	180.3	17.1	7.00	2.1
23760	6:36:00	83.2	147.2	180.0	15.5	7.03	2.1
23775	6:36:15	83.2	147.4	180.3	15.5	7.03	2.1
23790	6:36:30	83.6	147.3	180.3	15.0	7.04	2.1
23805	6:36:45	83.4	147.4	180.2	15.0	7.04	2.1
23820	6:37:00	83.3	147.4	180.2	14.5	7.03	2.2
23835	6:37:15	83.4	147.5	180.3	15.0	7.04	2.2
23850	6:37:30	83.6	147.5	180.2	13.9	7.05	2.2
23865	6:37:45	83.8	147.5	180.2	13.9	7.06	2.1
23880	6:38:00	82.5	147.4	180.2	13.4	7.07	2.2
23895	6:38:15	83.3	147.4	180.4	12.9	7.07	2.2
23910	6:38:30	83.1	147.4	180.2	12.9	7.06	2.2
23925	6:38:45	83.3	147.3	180.1	12.9	7.04	2.2
23940	6:39:00	82.9	147.4	180.6	13.9	7.04	2.1
23955	6:39:15	83.1	147.3	180.5	11.8	7.06	2.2
23970	6:39:30	83.3	147.3	180.6	12.9	7.06	2.2
23985	6:39:45	83.3	147.2	180.2	12.3	7.07	2.2
24000	6:40:00	83.2	147.1	180.1	12.3	7.06	2.2
24015	6:40:15	83.4	147.1	180.2	12.3	7.06	2.2
24030	6:40:30	83.0	147.1	180.1	12.3	7.06	2.2
24045	6:40:45	83.1	147.1	179.9	11.8	7.06	2.2
24060	6:41:00	83.4	147.1	180.0	12.3	7.07	2.2
24075	6:41:15	83.4	147.2	180.0	12.9	7.07	2.2
24090	6:41:30	83.2	147.1	179.9	16.0	7.03	2.2
24105	6:41:45	82.2	147.0	179.7	15.5	7.04	2.2
24120	6:42:00	81.8	147.1	179.8	13.9	7.04	2.2
24135	6:42:15	82.4	147.1	179.8	12.9	7.03	2.1
24150	6:42:30	82.9	147.1	180.0	12.9	7.03	2.1
24165	6:42:45	82.3	146.9	179.9	13.9	7.03	2.1
24180	6:43:00	82.5	146.9	180.3	14.5	7.04	2.1
24195	6:43:15	83.0	146.8	180.1	12.9	7.05	2.1
24210	6:43:30	83.4	146.8	179.9	11.8	7.08	2.2
24225	6:43:45	83.3	147.0	180.3	12.3	7.07	2.2
24240	6:44:00	83.6	146.9	180.2	12.3	7.07	2.2
24255	6:44:15	83.4	147.0	180.2	10.7	7.08	2.2
24270	6:44:30	82.5	146.9	180.2	11.3	7.06	2.2
24285	6:44:45	82.9	147.0	180.0	11.7	7.06	2.2
24300	6:45:00	82.6	147.0	180.0	12.3	7.06	2.2
24315	6:45:15	83.3	147.0	180.2	10.7	7.07	2.2
24330	6:45:30	83.7	147.0	180.1	11.3	7.06	2.2
24345	6:45:45	83.7	147.0	180.2	12.3	7.06	2.2
24360	6:46:00	83.6	146.9	180.1	12.9	7.06	2.2
24375	6:46:15	83.7	146.9	179.9	12.3	7.05	2.2
24390	6:46:30	83.3	146.9	180.1	12.3	7.06	2.2
24405	6:46:45	82.9	147.0	180.0	10.7	7.07	2.2
24420	6:47:00	83.2	147.0	180.1	10.2	7.07	2.2
24435	6:47:15	83.3	147.0	180.2	12.3	7.06	2.2

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
24450	6:47:30	83.2	147.1	180.3	11.8	7.06	2.2	
24465	6:47:45	83.3	147.1	180.2	10.7	7.07	2.2	
24480	6:48:00	83.2	147.0	180.0	11.8	7.06	2.2	
24495	6:48:15	83.5	147.0	180.3	10.7	7.05	2.2	
24510	6:48:30	82.8	147.0	180.6	10.2	7.06	2.2	
24525	6:48:45	82.7	147.1	180.4	10.2	7.06	2.2	
24540	6:49:00	82.8	147.0	180.2	10.7	7.07	2.2	
24555	6:49:15	83.0	147.1	180.2	10.7	7.07	2.2	
24570	6:49:30	83.1	147.0	180.4	12.3	7.09	2.2	
24585	6:49:45	83.4	147.1	180.3	10.2	7.10	2.2	
24600	6:50:00	83.4	147.1	180.5	10.7	7.10	2.3	Start Emissions
24615	6:50:15	83.5	147.1	180.4	10.2	7.10	2.3	
24630	6:50:30	83.2	147.2	180.3	10.7	7.09	2.3	
24645	6:50:45	83.4	147.2	180.3	10.2	7.10	2.3	
24660	6:51:00	83.3	147.2	180.4	10.7	7.08	2.3	1st Minute
24675	6:51:15	83.4	147.3	180.3	11.3	7.08	2.3	
24690	6:51:30	83.9	147.2	180.4	10.2	7.10	2.2	
24705	6:51:45	84.3	147.2	180.3	11.3	7.08	2.3	
24720	6:52:00	84.3	147.2	180.1	10.2	7.09	2.2	2nd Minute
24735	6:52:15	84.2	147.2	180.3	11.3	7.11	2.3	
24750	6:52:30	83.7	147.3	180.4	11.3	7.12	2.3	
24765	6:52:45	83.3	147.4	180.5	9.7	7.12	2.3	
24780	6:53:00	83.3	147.4	180.7	11.3	7.10	2.3	3rd Minute / EOT - Low Fire - #2
24795	6:53:15	83.5	147.3	180.5	10.2	7.10	2.3	
24810	6:53:30	83.4	147.2	180.3	9.7	7.09	2.3	CO2 (Avg) % = 7.10
24825	6:53:45	83.3	147.1	180.3	11.8	7.09	2.3	NOx (Avg) ppm = 2.3
24840	6:54:00	83.5	147.2	180.4	11.8	7.08	2.3	CO (Max) ppm = 17.1
24855	6:54:15	83.7	147.1	180.4	10.7	7.09	2.3	Ambient (Avg) F = 83.0
24870	6:54:30	83.8	147.1	180.6	9.1	7.11	2.3	T_In (Avg) F = 147.2
24885	6:54:45	83.5	147.1	180.4	10.2	7.11	2.3	T_Del (Avg) F = 180.3
24900	6:55:00	83.7	147.2	180.7	9.7	7.11	2.3	
24915	6:55:15	83.3	147.2	180.7	9.7	7.10	2.3	
24930	6:55:30	84.9	147.2	180.7	9.1	7.10	2.3	
24945	6:55:45	84.1	147.3	180.8	9.1	7.11	2.3	
24960	6:56:00	84.0	147.2	180.6	9.1	7.09	2.3	
24975	6:56:15	84.1	147.2	180.8	8.6	7.09	2.3	
24990	6:56:30	84.4	147.2	180.5	8.6	7.09	2.3	
25005	6:56:45	84.5	147.3	180.4	9.7	7.06	2.3	
25020	6:57:00	84.7	147.2	180.5	10.2	7.06	2.2	
25035	6:57:15	84.6	147.1	180.3	9.7	7.08	2.2	
25050	6:57:30	84.4	147.2	180.4	11.8	7.09	2.3	
25065	6:57:45	84.8	147.1	180.6	10.7	7.09	2.3	
25080	6:58:00	83.5	147.0	180.5	11.3	7.07	2.3	
25095	6:58:15	83.5	147.1	180.6	10.7	7.08	2.2	
25110	6:58:30	83.9	147.1	180.2	10.2	7.07	2.2	
25125	6:58:45	83.7	146.5	179.9	24.0	6.23	2.2	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
25140	6:59:00	83.5	147.1	171.8	0.0	0.42	2.3	
25155	6:59:15	83.8	137.1	158.2	0.0	0.18	1.4	
25170	6:59:30	83.0	96.3	152.2	0.0	0.14	0.6	
25185	6:59:45	82.3	82.6	150.0	0.0	0.12	0.6	
25200	7:00:00	83.1	77.3	148.8	0.0	0.12	0.6	
25215	7:00:15	83.4	74.7	147.8	0.0	0.11	0.5	
25230	7:00:30	83.3	73.1	140.2	0.0	0.11	0.5	
25245	7:00:45	83.2	72.0	125.0	0.0	0.10	0.5	
25260	7:01:00	82.8	71.3	110.2	0.0	0.10	0.5	
25275	7:01:15	82.3	70.7	96.3	0.0	0.09	0.5	
25290	7:01:30	81.8	70.2	87.0	0.0	0.09	0.4	
25305	7:01:45	81.7	69.9	81.3	0.0	0.09	0.4	
25320	7:02:00	82.0	69.5	78.2	0.0	0.09	0.4	
25335	7:02:15	82.3	69.1	75.8	0.0	0.09	0.4	
25350	7:02:30	82.7	69.0	74.5	0.0	0.08	0.4	
25365	7:02:45	82.7	68.7	73.5	0.0	0.08	0.4	
25380	7:03:00	82.6	68.4	72.7	0.0	0.08	0.4	
25395	7:03:15	82.9	68.2	72.1	0.0	0.08	0.3	
25410	7:03:30	82.8	68.0	71.6	0.0	0.08	0.3	
25425	7:03:45	82.9	67.8	71.2	0.0	0.08	0.3	
25440	7:04:00	83.3	67.7	70.9	0.0	0.08	0.3	
25455	7:04:15	82.3	67.5	70.5	0.0	0.07	0.3	
25470	7:04:30	82.5	67.4	70.2	0.0	0.07	0.3	
25485	7:04:45	82.9	67.2	69.9	0.0	0.07	0.3	
25500	7:05:00	82.6	67.1	69.7	0.0	0.07	0.3	
25515	7:05:15	82.6	66.9	69.5	0.0	0.07	0.3	
25530	7:05:30	82.6	66.8	69.2	0.0	0.07	0.2	
25545	7:05:45	83.0	66.6	68.9	0.0	0.07	0.2	
25560	7:06:00	83.1	66.6	68.9	0.0	0.07	0.2	
25575	7:06:15	83.0	66.6	68.7	0.0	0.07	0.2	
25590	7:06:30	83.1	66.5	68.6	0.0	0.07	0.2	
25605	7:06:45	83.6	66.4	68.4	0.0	0.07	0.2	
25620	7:07:00	83.3	66.4	68.4	0.0	0.07	0.2	
25635	7:07:15	82.8	66.5	68.3	0.0	0.07	0.2	
25650	7:07:30	82.0	66.2	68.2	0.0	0.06	0.2	
25665	7:07:45	82.6	66.2	68.1	0.0	0.06	0.2	
25680	7:08:00	82.4	78.7	68.1	0.0	0.06	0.2	
25695	7:08:15	82.4	81.1	68.1	0.0	0.07	0.2	
25710	7:08:30	82.9	76.7	71.1	33.6	0.23	0.2	
25725	7:08:45	83.5	73.3	83.7	85.5	6.76	0.2	
25740	7:09:00	83.1	71.3	97.6	42.2	7.43	1.7	
25755	7:09:15	82.8	70.2	105.6	32.0	7.57	2.3	
25770	7:09:30	82.7	69.9	111.1	27.0	7.58	3.1	
25785	7:09:45	83.1	72.0	115.0	20.3	7.56	3.2	
25800	7:10:00	82.9	77.1	116.8	16.0	7.53	3.2	
25815	7:10:15	83.3	83.0	117.4	15.0	7.46	3.1	
25830	7:10:30	83.1	88.2	116.3	15.0	7.42	2.9	
25845	7:10:45	82.7	92.6	115.0	14.5	7.38	2.8	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
25860	7:11:00	82.5	95.8	113.8	19.8	7.30	2.7
25875	7:11:15	82.4	98.0	112.5	46.2	7.20	2.6
25890	7:11:30	82.7	99.3	111.7	65.5	7.13	2.3
25905	7:11:45	83.6	99.8	113.3	74.1	7.10	2.2
25920	7:12:00	83.6	99.6	115.8	77.2	7.12	2.1
25935	7:12:15	83.4	99.3	118.9	95.9	7.09	2.1
25950	7:12:30	83.2	98.9	121.9	99.1	7.08	2.1
25965	7:12:45	83.2	99.0	124.4	101.7	7.08	2.1
25980	7:13:00	82.8	99.6	126.6	112.9	7.05	2.1
25995	7:13:15	82.3	100.7	128.7	110.3	7.01	2.0
26010	7:13:30	82.8	101.8	130.2	116.1	6.94	1.9
26025	7:13:45	83.0	103.2	131.6	116.6	6.93	1.9
26040	7:14:00	83.2	104.8	131.7	110.1	6.93	1.9
26055	7:14:15	83.1	106.2	132.2	108.1	6.92	1.9
26070	7:14:30	82.6	107.7	132.2	105.5	6.88	1.9
26085	7:14:45	83.1	109.0	132.4	107.1	6.85	1.8
26100	7:15:00	83.4	110.0	132.6	112.9	6.79	1.8
26115	7:15:15	83.3	110.6	133.2	116.1	6.74	1.7
26130	7:15:30	83.3	111.1	133.5	118.8	6.73	1.7
26145	7:15:45	83.1	111.3	134.0	124.1	6.69	1.6
26160	7:16:00	83.8	111.6	134.9	128.9	6.69	1.6
26175	7:16:15	83.6	111.8	135.9	133.7	6.67	1.6
26190	7:16:30	83.2	112.2	136.6	147.2	6.58	1.6
26205	7:16:45	82.7	112.5	136.9	158.7	6.53	1.5
26220	7:17:00	82.5	112.9	137.2	169.6	6.49	1.5
26235	7:17:15	82.7	113.4	136.9	1050.2	6.76	1.4
26250	7:17:30	82.9	114.0	136.1	1050.2	7.03	5.5
26265	7:17:45	83.0	114.4	133.8	1050.2	5.77	9.6
26280	7:18:00	83.1	114.6	132.5	1050.2	5.19	9.4
26295	7:18:15	83.3	115.0	132.0	1050.2	5.37	6.1
26310	7:18:30	82.9	114.8	131.9	1050.2	5.45	2.6
26325	7:18:45	82.8	114.4	132.2	997.5	5.53	2.3
26340	7:19:00	83.2	113.8	132.5	965.6	5.57	2.0
26355	7:19:15	82.9	113.1	134.6	567.9	6.06	2.0
26370	7:19:30	83.2	112.7	137.2	72.3	7.98	2.9
26385	7:19:45	83.9	112.5	138.8	16.6	8.18	3.9
26400	7:20:00	83.8	112.3	139.7	8.1	8.18	5.7
26415	7:20:15	83.6	112.7	140.2	3.3	8.18	5.9
26430	7:20:30	83.6	113.4	140.0	0.6	8.16	6.2
26445	7:20:45	83.2	114.4	139.8	0.0	8.15	6.3
26460	7:21:00	83.0	115.4	139.3	0.0	8.17	6.2
26475	7:21:15	83.1	116.2	139.4	0.0	8.13	6.2
26490	7:21:30	83.1	116.6	138.4	0.0	8.12	6.3
26505	7:21:45	83.0	117.0	138.1	0.0	8.12	6.2
26520	7:22:00	82.4	116.9	137.8	0.0	8.12	6.2
26535	7:22:15	82.1	117.0	137.6	0.0	8.12	6.2
26550	7:22:30	82.0	116.8	138.1	0.0	8.05	6.1
26565	7:22:45	82.3	116.6	139.0	0.0	8.01	5.9

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
26580	7:23:00	82.8	116.5	139.8	0.0	8.08	5.8
26595	7:23:15	83.2	116.2	140.4	0.0	8.11	6.1
26610	7:23:30	83.3	116.3	140.7	0.0	8.08	6.2
26625	7:23:45	82.8	116.4	140.9	0.0	8.07	6.1
26640	7:24:00	82.2	116.7	140.9	0.0	8.10	6.2
26655	7:24:15	82.7	117.2	140.3	0.0	8.04	6.3
26670	7:24:30	83.0	117.4	140.1	0.0	8.05	6.3
26685	7:24:45	82.8	117.7	140.1	0.0	8.03	6.1
26700	7:25:00	81.8	117.8	139.9	0.0	8.07	6.1
26715	7:25:15	81.8	117.9	139.5	0.0	7.92	6.1
26730	7:25:30	81.5	117.7	139.6	0.0	7.89	5.8
26745	7:25:45	81.5	117.6	139.5	0.0	7.94	5.5
26760	7:26:00	81.8	117.6	139.5	0.0	8.01	5.7
26775	7:26:15	82.0	117.5	139.7	0.0	8.02	5.9
26790	7:26:30	82.4	117.5	139.9	0.0	8.00	6.1
26805	7:26:45	82.3	117.5	140.1	0.0	8.00	6.1
26820	7:27:00	82.0	117.6	140.7	0.0	7.93	6.1
26835	7:27:15	82.0	117.5	141.5	0.0	7.97	5.9
26850	7:27:30	82.1	117.7	142.3	0.0	8.02	6.1
26865	7:27:45	82.3	117.8	142.9	0.0	7.99	6.4
26880	7:28:00	81.9	118.1	142.7	0.0	7.96	6.2
26895	7:28:15	82.3	118.3	143.1	0.0	8.02	6.2
26910	7:28:30	82.3	118.6	143.1	0.0	7.98	6.1
26925	7:28:45	82.3	119.1	143.1	0.0	8.07	6.0
26940	7:29:00	81.8	119.3	142.7	0.0	8.03	6.5
26955	7:29:15	81.9	119.6	143.0	0.0	7.97	6.3
26970	7:29:30	82.0	119.7	143.0	0.0	8.04	6.2
26985	7:29:45	82.2	119.7	143.0	0.0	8.07	6.2
27000	7:30:00	81.7	119.8	143.2	0.0	8.06	6.5
27015	7:30:15	82.1	119.8	143.7	0.0	8.03	6.4
27030	7:30:30	81.6	119.7	143.6	0.0	8.04	6.4
27045	7:30:45	81.7	119.8	143.6	0.0	8.06	6.3
27060	7:31:00	81.6	119.8	144.1	0.0	8.03	6.5
27075	7:31:15	82.3	119.9	144.1	0.0	7.98	6.4
27090	7:31:30	82.2	120.2	144.4	0.0	7.99	6.2
27105	7:31:45	82.1	120.2	144.7	0.0	8.00	6.1
27120	7:32:00	81.5	120.3	144.6	0.0	7.99	6.2
27135	7:32:15	82.5	120.5	144.9	0.0	8.06	6.2
27150	7:32:30	82.8	120.8	144.9	0.0	8.09	6.5
27165	7:32:45	82.9	120.9	144.9	0.0	7.97	6.7
27180	7:33:00	82.2	121.0	145.2	0.0	8.06	6.1
27195	7:33:15	82.5	121.0	145.4	0.0	8.03	6.4
27210	7:33:30	82.0	121.2	145.2	0.0	8.06	6.5
27225	7:33:45	82.1	121.2	145.4	0.0	7.99	6.5
27240	7:34:00	82.0	121.3	145.5	0.0	7.98	6.2
27255	7:34:15	81.7	121.3	145.5	0.0	8.00	6.2
27270	7:34:30	81.9	121.5	145.6	0.0	8.04	6.3
27285	7:34:45	82.2	121.5	145.6	0.0	8.08	6.4

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
27300	7:35:00	81.7	121.6	146.7	0.0	8.07	6.7
27315	7:35:15	81.4	121.6	148.0	0.0	8.12	6.7
27330	7:35:30	81.7	121.7	149.2	0.0	8.13	6.9
27345	7:35:45	82.1	121.8	149.8	0.0	8.18	7.1
27360	7:36:00	82.6	122.1	150.2	0.0	8.23	7.5
27375	7:36:15	82.6	122.5	150.1	0.0	8.21	7.6
27390	7:36:30	82.8	123.2	150.6	0.0	8.20	7.6
27405	7:36:45	83.0	123.8	150.6	0.0	8.22	7.6
27420	7:37:00	83.4	124.2	150.7	0.0	8.22	7.6
27435	7:37:15	83.7	124.5	150.7	0.0	8.23	7.6
27450	7:37:30	83.4	124.7	150.6	0.0	8.23	7.6
27465	7:37:45	83.3	124.8	151.0	0.0	8.25	7.7
27480	7:38:00	83.3	124.9	150.7	0.0	8.23	7.9
27495	7:38:15	82.6	125.0	151.1	0.0	8.22	7.8
27510	7:38:30	82.1	125.0	152.0	0.0	8.22	7.7
27525	7:38:45	82.5	124.9	152.8	0.0	8.22	7.8
27540	7:39:00	82.5	124.7	153.3	0.0	8.22	7.7
27555	7:39:15	82.3	124.5	153.7	0.0	8.19	7.7
27570	7:39:30	82.0	124.7	154.1	0.0	8.19	7.8
27585	7:39:45	82.7	124.9	154.1	0.0	8.21	7.7
27600	7:40:00	82.5	125.3	154.5	0.0	8.20	7.8
27615	7:40:15	82.8	125.6	155.0	0.0	8.22	7.8
27630	7:40:30	82.9	125.8	155.8	0.0	8.27	7.9
27645	7:40:45	83.5	126.1	156.5	0.0	8.33	8.0
27660	7:41:00	83.2	126.2	157.3	0.0	8.35	8.7
27675	7:41:15	83.0	126.6	157.6	0.0	8.36	8.8
27690	7:41:30	82.8	126.8	157.5	0.0	8.35	8.9
27705	7:41:45	82.9	127.2	157.7	0.0	8.34	8.9
27720	7:42:00	83.0	127.7	157.8	0.0	8.33	8.7
27735	7:42:15	82.6	128.2	158.6	0.0	8.34	8.7
27750	7:42:30	82.3	128.4	158.5	0.0	8.33	8.7
27765	7:42:45	82.3	128.6	158.6	0.0	8.33	8.7
27780	7:43:00	82.4	128.9	158.8	0.0	8.33	8.8
27795	7:43:15	83.0	129.1	158.9	0.0	8.31	8.7
27810	7:43:30	83.8	129.2	159.3	0.0	8.33	8.7
27825	7:43:45	84.3	129.4	159.6	0.0	8.37	8.7
27840	7:44:00	84.4	129.4	159.8	0.0	8.38	9.0
27855	7:44:15	83.7	129.5	159.7	0.0	7.97	9.0
27870	7:44:30	84.1	129.8	159.8	0.0	7.71	7.4
27885	7:44:45	83.5	129.9	159.2	0.0	7.67	5.7
27900	7:45:00	83.1	130.0	159.4	0.0	7.67	5.3
27915	7:45:15	83.2	130.2	159.5	0.0	7.64	5.3
27930	7:45:30	82.7	130.2	159.9	0.0	7.62	5.1
27945	7:45:45	82.3	130.2	160.0	0.0	7.64	5.0
27960	7:46:00	81.3	130.2	160.2	0.0	7.68	4.9
27975	7:46:15	81.9	130.2	160.4	0.0	7.66	5.0
27990	7:46:30	81.9	130.4	160.9	0.0	7.67	4.9
28005	7:46:45	82.2	130.5	160.8	0.0	7.66	4.9

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
28020	7:47:00	82.7	130.8	161.1	0.0	7.68	4.8
28035	7:47:15	82.6	131.0	161.6	0.0	7.70	4.9
28050	7:47:30	82.8	131.3	162.0	0.0	7.70	4.9
28065	7:47:45	82.5	131.6	162.0	0.0	7.70	4.8
28080	7:48:00	82.5	131.8	162.1	0.0	7.71	4.9
28095	7:48:15	82.6	132.0	162.4	0.0	7.76	4.8
28110	7:48:30	82.6	132.2	163.1	0.0	7.79	5.0
28125	7:48:45	82.5	132.4	163.3	0.0	7.81	5.1
28140	7:49:00	82.3	132.4	163.4	0.0	7.82	5.3
28155	7:49:15	82.0	132.5	163.9	0.0	7.83	5.3
28170	7:49:30	82.8	132.7	164.4	0.0	7.86	5.3
28185	7:49:45	83.1	132.8	164.6	0.0	7.87	5.4
28200	7:50:00	83.2	133.0	165.3	0.0	7.88	5.5
28215	7:50:15	83.1	133.2	165.5	0.0	7.88	5.5
28230	7:50:30	82.7	133.4	165.5	0.0	7.91	5.6
28245	7:50:45	82.7	133.6	166.1	0.0	7.91	5.6
28260	7:51:00	82.4	133.8	165.9	0.0	7.87	5.6
28275	7:51:15	82.4	134.0	166.1	0.0	7.86	5.4
28290	7:51:30	82.9	134.3	166.1	0.0	7.88	5.4
28305	7:51:45	82.8	134.5	166.3	0.0	7.87	5.4
28320	7:52:00	82.2	134.8	166.5	0.0	7.88	5.4
28335	7:52:15	82.5	134.9	167.2	0.0	7.89	5.5
28350	7:52:30	82.4	135.1	167.3	0.0	7.88	5.5
28365	7:52:45	82.5	135.2	167.8	0.0	7.85	5.5
28380	7:53:00	82.5	135.3	167.7	0.0	7.77	5.3
28395	7:53:15	82.5	135.3	167.7	0.0	7.79	5.1
28410	7:53:30	82.9	135.5	168.2	0.0	7.79	5.0
28425	7:53:45	83.7	135.6	168.5	0.0	7.80	5.1
28440	7:54:00	83.4	135.7	168.9	0.0	7.83	5.1
28455	7:54:15	83.1	135.7	168.9	0.0	7.84	5.1
28470	7:54:30	83.1	135.8	169.2	0.0	7.85	5.2
28485	7:54:45	82.7	136.0	169.7	0.0	7.86	5.2
28500	7:55:00	82.7	136.2	170.1	0.0	7.87	5.2
28515	7:55:15	82.6	136.3	170.4	0.0	7.89	5.3
28530	7:55:30	82.4	136.6	170.7	0.0	7.88	5.3
28545	7:55:45	82.9	136.9	171.3	0.0	7.90	5.4
28560	7:56:00	83.2	137.0	171.5	0.0	7.90	5.5
28575	7:56:15	83.3	137.2	172.0	0.0	7.91	5.5
28590	7:56:30	83.2	137.3	172.2	0.0	7.92	5.5
28605	7:56:45	83.1	137.5	172.2	0.0	7.92	5.5
28620	7:57:00	83.4	137.8	170.9	0.0	7.72	5.6
28635	7:57:15	83.2	137.9	170.6	0.0	7.66	5.1
28650	7:57:30	83.2	138.1	170.2	0.0	7.67	4.6
28665	7:57:45	83.1	138.2	170.4	0.0	7.68	4.6
28680	7:58:00	83.3	138.2	170.5	0.0	7.69	4.6
28695	7:58:15	83.8	138.0	170.9	0.0	7.68	4.6
28710	7:58:30	83.4	137.9	171.1	0.0	7.70	4.6
28725	7:58:45	84.4	137.7	171.2	0.0	7.70	4.7

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)
28740	7:59:00	84.3	137.6	171.6	0.0	7.70	4.7
28755	7:59:15	84.0	137.6	171.9	0.0	7.71	4.7
28770	7:59:30	83.6	137.6	172.2	0.0	7.72	4.6
28785	7:59:45	83.3	137.8	172.5	0.0	7.74	4.6
28800	8:00:00	83.0	138.0	172.9	0.0	7.75	4.7
28815	8:00:15	82.5	138.0	172.9	0.0	7.76	4.7
28830	8:00:30	82.0	138.1	173.2	0.0	7.76	4.8
28845	8:00:45	81.7	138.3	173.7	0.0	7.76	4.8
28860	8:01:00	81.4	138.4	173.7	0.0	7.77	4.8
28875	8:01:15	81.0	138.6	173.8	0.0	7.77	4.9
28890	8:01:30	81.0	138.8	174.0	0.0	7.78	4.9
28905	8:01:45	81.0	139.0	174.4	0.0	7.80	4.9
28920	8:02:00	81.3	139.1	174.7	0.0	7.81	5.0
28935	8:02:15	81.2	139.3	175.3	0.0	7.82	5.0
28950	8:02:30	81.2	139.3	175.6	0.0	7.83	5.1
28965	8:02:45	81.0	139.5	175.8	0.0	7.84	5.1
28980	8:03:00	80.8	139.6	176.2	0.0	7.84	5.2
28995	8:03:15	80.6	139.8	176.3	0.0	7.84	5.2
29010	8:03:30	81.5	140.0	174.0	0.0	7.51	4.9
29025	8:03:45	81.4	140.2	171.8	0.0	7.38	4.7
29040	8:04:00	81.1	140.2	171.1	0.0	7.36	3.7
29055	8:04:15	81.1	140.3	170.2	0.0	7.37	3.6
29070	8:04:30	81.2	140.5	170.2	0.0	7.39	3.6
29085	8:04:45	81.3	140.1	170.2	0.0	7.38	3.6
29100	8:05:00	81.2	139.4	170.6	0.0	7.39	3.6
29115	8:05:15	81.1	138.8	170.7	0.0	7.41	3.6
29130	8:05:30	80.4	138.2	171.8	0.0	7.56	3.7
29145	8:05:45	80.8	137.9	173.0	0.0	7.62	3.8
29160	8:06:00	80.8	137.7	173.8	0.0	7.65	4.2
29175	8:06:15	80.9	137.7	174.4	0.0	7.68	4.2
29190	8:06:30	80.6	137.6	174.7	0.0	7.67	4.4
29205	8:06:45	80.9	137.9	174.7	0.0	7.66	4.4
29220	8:07:00	81.6	138.3	174.6	0.0	7.67	4.3
29235	8:07:15	81.6	138.8	174.4	0.0	7.69	4.4
29250	8:07:30	81.3	139.2	174.3	0.0	7.68	4.4
29265	8:07:45	80.8	139.5	174.1	0.0	7.69	4.4
29280	8:08:00	81.0	139.7	173.9	0.0	7.70	4.4
29295	8:08:15	81.2	139.9	173.7	0.0	7.71	4.4
29310	8:08:30	81.5	140.6	173.3	0.0	7.67	4.5
29325	8:08:45	81.7	141.7	173.2	0.0	7.63	4.6
29340	8:09:00	81.6	142.1	173.3	0.0	7.63	4.3
29355	8:09:15	81.4	142.2	173.4	0.0	7.62	4.2
29370	8:09:30	81.5	142.3	173.6	0.0	7.62	4.2
29385	8:09:45	81.3	142.3	174.0	0.0	7.62	4.1
29400	8:10:00	81.1	142.3	174.3	0.0	7.64	4.1
29415	8:10:15	81.9	142.3	174.8	0.0	7.64	4.2
29430	8:10:30	81.6	142.5	175.2	0.0	7.64	4.3
29445	8:10:45	81.9	142.6	175.8	0.0	7.66	4.3

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
29460	8:11:00	82.1	142.7	176.3	0.0	7.66	4.3	
29475	8:11:15	81.9	142.9	176.4	0.0	7.68	4.3	
29490	8:11:30	81.9	143.1	176.8	0.0	7.67	4.3	
29505	8:11:45	82.2	143.4	176.8	0.0	7.68	4.3	
29520	8:12:00	82.2	143.7	176.5	0.0	7.56	4.4	
29535	8:12:15	82.3	143.9	176.3	0.0	7.54	4.2	
29550	8:12:30	82.4	144.1	176.0	0.0	7.55	3.9	
29565	8:12:45	82.2	144.3	176.1	0.0	7.55	3.9	
29580	8:13:00	82.6	144.5	175.9	0.0	7.55	3.9	
29595	8:13:15	83.0	144.4	176.4	0.0	7.55	3.9	
29610	8:13:30	82.9	144.4	176.6	0.0	7.56	3.9	
29625	8:13:45	82.4	144.3	176.6	0.0	7.58	4.0	
29640	8:14:00	82.5	144.3	176.7	0.0	7.55	4.0	
29655	8:14:15	82.5	144.3	177.0	0.0	7.55	4.0	
29670	8:14:30	82.6	144.4	177.1	0.0	7.55	3.9	
29685	8:14:45	82.3	144.4	177.6	0.0	7.56	3.9	
29700	8:15:00	82.8	144.6	177.7	0.0	7.58	3.9	
29715	8:15:15	82.4	144.7	177.8	0.0	7.59	3.9	
29730	8:15:30	82.4	144.8	178.0	0.0	7.59	4.0	
29745	8:15:45	82.4	144.9	178.4	0.0	7.60	4.0	
29760	8:16:00	82.8	145.0	178.1	0.0	7.60	4.0	Start Low Fire Equilibrium - #3
29775	8:16:15	82.9	145.2	178.3	0.0	7.59	4.0	
29790	8:16:30	83.1	145.4	178.4	0.0	7.61	4.0	
29805	8:16:45	82.5	145.4	178.9	0.0	7.61	4.0	
29820	8:17:00	82.6	145.5	178.6	0.0	7.60	4.0	
29835	8:17:15	81.8	145.6	178.9	0.0	7.62	4.0	
29850	8:17:30	81.4	145.7	178.8	0.0	7.61	4.0	
29865	8:17:45	81.2	145.8	179.0	0.0	7.62	4.0	
29880	8:18:00	81.6	146.0	179.4	0.0	7.62	4.1	
29895	8:18:15	81.8	145.9	179.4	0.0	7.54	4.1	
29910	8:18:30	81.5	146.1	179.4	0.0	7.48	3.8	
29925	8:18:45	81.9	146.1	179.3	0.0	7.50	3.6	
29940	8:19:00	82.1	146.1	179.4	0.0	7.47	3.7	
29955	8:19:15	82.4	146.0	179.3	0.0	7.50	3.6	
29970	8:19:30	82.5	146.0	179.9	0.0	7.50	3.6	
29985	8:19:45	82.2	146.1	179.6	0.0	7.50	3.7	
30000	8:20:00	82.3	146.1	179.8	0.0	7.51	3.6	
30015	8:20:15	82.5	146.1	179.8	0.0	7.50	3.7	
30030	8:20:30	82.0	146.1	180.0	0.0	7.51	3.7	
30045	8:20:45	82.2	146.3	180.1	0.0	7.53	3.7	
30060	8:21:00	81.8	146.3	180.4	0.0	7.50	3.7	End Low Fire Equilibrium - #3
30075	8:21:15	81.8	146.4	180.3	0.0	7.52	3.7	
30090	8:21:30	82.4	146.5	180.7	0.0	7.52	3.7	
30105	8:21:45	82.3	146.5	180.4	0.0	7.52	3.7	
30120	8:22:00	81.9	146.6	180.5	0.0	7.52	3.7	Start Test - Low Fire - #3
30135	8:22:15	81.8	146.7	180.8	0.0	7.52	3.7	
30150	8:22:30	81.5	146.7	180.7	0.0	7.53	3.7	
30165	8:22:45	81.2	146.9	180.7	0.0	7.55	3.7	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
30180	8:23:00	82.0	147.0	180.4	0.0	7.45	3.8
30195	8:23:15	81.6	147.0	179.7	0.0	7.39	3.6
30210	8:23:30	81.6	147.1	179.5	0.0	7.38	3.4
30225	8:23:45	81.4	147.0	179.4	0.0	7.37	3.3
30240	8:24:00	80.9	147.0	179.0	0.0	7.37	3.3
30255	8:24:15	81.1	146.9	179.5	0.0	7.39	3.3
30270	8:24:30	81.8	146.7	179.4	0.0	7.39	3.3
30285	8:24:45	82.2	146.7	179.7	0.0	7.38	3.3
30300	8:25:00	82.6	146.9	179.9	0.0	7.37	3.2
30315	8:25:15	82.1	146.8	179.8	0.0	7.39	3.2
30330	8:25:30	82.3	146.9	179.9	0.0	7.40	3.3
30345	8:25:45	82.3	146.9	180.1	0.0	7.41	3.3
30360	8:26:00	82.3	147.0	180.2	0.0	7.39	3.3
30375	8:26:15	82.5	147.2	180.6	0.0	7.42	3.3
30390	8:26:30	82.1	147.2	180.3	0.0	7.41	3.3
30405	8:26:45	81.5	147.4	180.3	0.0	7.41	3.3
30420	8:27:00	81.5	147.5	180.6	0.0	7.43	3.3
30435	8:27:15	81.3	147.5	180.8	0.0	7.43	3.3
30450	8:27:30	81.1	147.6	180.9	0.0	7.44	3.3
30465	8:27:45	80.8	147.6	180.7	0.0	7.43	3.4
30480	8:28:00	81.5	147.6	180.8	0.0	7.45	3.3
30495	8:28:15	81.8	147.7	181.0	0.0	7.44	3.4
30510	8:28:30	81.6	147.7	180.9	0.0	7.43	3.4
30525	8:28:45	81.9	147.7	181.1	0.0	7.43	3.3
30540	8:29:00	81.4	147.8	181.2	0.0	7.44	3.3
30555	8:29:15	80.8	147.8	181.4	0.0	7.44	3.3
30570	8:29:30	80.9	147.8	181.4	0.0	7.44	3.4
30585	8:29:45	79.9	147.9	181.3	0.0	7.45	3.4
30600	8:30:00	79.4	147.8	181.4	0.0	7.45	3.4
30615	8:30:15	79.3	147.9	181.4	0.0	7.44	3.4
30630	8:30:30	79.5	148.0	181.7	0.0	7.47	3.4
30645	8:30:45	79.7	148.2	181.5	0.0	7.46	3.4
30660	8:31:00	79.3	148.2	181.4	0.0	7.46	3.4
30675	8:31:15	79.2	148.3	181.2	0.0	7.46	3.4
30690	8:31:30	79.7	148.3	181.5	0.0	7.47	3.4
30705	8:31:45	79.5	148.4	181.6	0.0	7.49	3.4
30720	8:32:00	79.5	148.4	181.9	0.0	7.49	3.5
30735	8:32:15	79.7	148.4	181.7	0.0	7.47	3.5
30750	8:32:30	79.3	148.5	181.9	0.0	7.49	3.5
30765	8:32:45	79.4	148.5	181.6	0.0	7.49	3.5
30780	8:33:00	79.4	148.6	181.8	0.0	7.49	3.5
30795	8:33:15	79.6	148.7	181.9	0.0	7.51	3.5
30810	8:33:30	79.6	148.8	181.9	0.0	7.52	3.5
30825	8:33:45	79.5	148.8	181.9	0.0	7.50	3.6
30840	8:34:00	79.7	148.9	182.0	0.0	7.51	3.5
30855	8:34:15	80.2	148.9	181.8	0.0	7.52	3.5
30870	8:34:30	79.4	149.1	181.8	0.0	7.51	3.5
30885	8:34:45	79.7	149.1	181.9	0.0	7.51	3.5

Comments

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
30900	8:35:00	79.6	148.8	181.7	0.0	7.52	3.5
30915	8:35:15	79.5	148.7	181.8	0.0	7.51	3.6
30930	8:35:30	80.0	148.6	181.9	0.0	7.52	3.6
30945	8:35:45	79.5	148.6	181.8	0.0	7.52	3.6
30960	8:36:00	79.5	148.6	181.9	0.0	7.52	3.6
30975	8:36:15	79.6	148.5	181.9	0.0	7.53	3.6
30990	8:36:30	79.2	148.5	181.9	0.0	7.53	3.6
31005	8:36:45	79.2	148.5	181.8	0.0	7.53	3.6
31020	8:37:00	79.3	148.5	181.7	0.0	7.54	3.6
31035	8:37:15	79.5	148.6	181.8	0.0	7.54	3.6
31050	8:37:30	79.5	148.6	181.7	0.0	7.54	3.6
31065	8:37:45	79.6	148.7	181.5	0.0	7.55	3.7
31080	8:38:00	80.3	148.9	181.7	0.0	7.55	3.7
31095	8:38:15	80.5	148.8	181.7	0.0	7.55	3.7
31110	8:38:30	80.3	148.8	181.9	0.0	7.57	3.7
31125	8:38:45	80.3	148.8	181.5	0.0	7.56	3.7
31140	8:39:00	80.7	148.7	181.5	0.0	7.56	3.7
31155	8:39:15	80.2	148.7	181.3	0.0	7.56	3.7
31170	8:39:30	79.7	148.8	181.5	0.0	7.55	3.7
31185	8:39:45	79.7	148.7	181.2	0.0	7.55	3.8
31200	8:40:00	79.6	148.7	181.0	0.0	7.55	3.8
31215	8:40:15	79.5	148.6	181.3	0.0	7.54	3.8
31230	8:40:30	79.6	148.6	181.6	0.0	7.54	3.7
31245	8:40:45	79.8	148.6	181.6	0.0	7.48	3.7
31260	8:41:00	79.7	148.5	181.7	0.0	7.39	3.6
31275	8:41:15	80.1	148.6	181.8	0.0	7.38	3.4
31290	8:41:30	80.5	148.5	181.7	0.0	7.39	3.2
31305	8:41:45	80.2	148.5	181.5	0.0	7.39	3.2
31320	8:42:00	80.1	148.3	181.7	0.0	7.38	3.2
31335	8:42:15	80.9	148.4	181.4	0.0	7.40	3.2
31350	8:42:30	81.4	148.4	181.6	0.0	7.40	3.2
31365	8:42:45	81.3	148.5	181.3	0.0	7.39	3.2
31380	8:43:00	81.1	148.2	181.3	0.0	7.39	3.2
31395	8:43:15	80.9	147.9	181.2	0.0	7.40	3.2
31410	8:43:30	81.4	147.6	181.1	0.0	7.38	3.2
31425	8:43:45	81.4	147.6	181.3	0.0	7.38	3.2
31440	8:44:00	81.4	147.5	181.3	0.0	7.27	3.2
31455	8:44:15	80.5	147.4	181.1	0.0	7.26	3.0
31470	8:44:30	80.9	147.3	180.7	0.0	7.25	2.8
31485	8:44:45	81.4	147.2	180.9	0.0	7.25	2.8
31500	8:45:00	81.4	147.0	180.7	0.0	7.27	2.8
31515	8:45:15	81.0	146.8	180.4	0.0	7.27	2.8
31530	8:45:30	81.3	146.4	180.2	0.0	7.26	2.8
31545	8:45:45	81.8	146.3	180.2	0.0	7.26	2.8
31560	8:46:00	81.6	146.2	180.0	0.0	7.27	2.8
31575	8:46:15	81.6	146.0	179.9	0.0	7.26	2.8
31590	8:46:30	82.1	145.9	179.8	0.0	7.25	2.8
31605	8:46:45	82.1	145.7	179.6	0.0	7.25	2.8

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
31620	8:47:00	82.3	145.7	179.3	0.0	7.27	2.8	
31635	8:47:15	82.1	145.6	179.1	0.0	7.26	2.8	
31650	8:47:30	81.6	145.9	179.4	0.0	7.27	2.8	
31665	8:47:45	81.5	146.0	179.2	0.0	7.27	2.8	
31680	8:48:00	81.8	146.0	178.9	0.0	7.26	2.8	
31695	8:48:15	81.5	145.8	178.8	0.0	7.28	2.8	
31710	8:48:30	82.1	145.7	178.9	0.0	7.30	2.8	
31725	8:48:45	80.5	145.6	178.7	0.0	7.29	2.8	
31740	8:49:00	80.3	145.5	178.6	0.0	7.28	2.8	Start Emissions
31755	8:49:15	79.8	145.4	178.8	0.0	7.27	2.8	
31770	8:49:30	79.4	145.3	178.4	0.0	7.28	2.8	
31785	8:49:45	79.0	145.2	178.6	0.0	7.30	2.8	
31800	8:50:00	79.1	145.3	178.4	0.0	7.28	2.8	1st Minute
31815	8:50:15	79.6	145.2	178.6	0.0	7.29	2.8	
31830	8:50:30	79.9	145.1	178.4	0.0	7.28	2.8	
31845	8:50:45	79.3	145.0	178.4	0.0	7.32	2.8	
31860	8:51:00	78.9	145.0	178.4	0.0	7.29	2.9	2nd Minute
31875	8:51:15	78.3	145.0	178.4	0.0	7.28	2.9	
31890	8:51:30	78.8	145.0	178.4	0.0	7.29	2.8	
31905	8:51:45	79.1	144.9	178.5	0.0	7.31	2.8	
31920	8:52:00	78.8	144.9	178.7	0.0	7.32	2.9	3rd Minute / EOT - Low Fire - #3
31935	8:52:15	79.1	145.2	178.7	0.0	7.31	2.9	
31950	8:52:30	79.3	145.5	178.7	0.0	7.29	2.8	CO2 (Avg) % = 7.29
31965	8:52:45	79.4	145.7	178.8	0.0	7.29	2.8	NOx (Avg) ppm = 2.8
31980	8:53:00	79.4	145.8	178.6	0.0	7.32	2.8	CO (Max) ppm = 0.0
31995	8:53:15	79.3	145.9	178.5	0.0	7.30	2.8	Ambient (Avg) F = 80.5
32010	8:53:30	79.4	146.0	178.4	0.0	7.29	2.9	T_In (Avg) F = 147.4
32025	8:53:45	79.2	146.0	178.3	0.0	7.30	2.8	T_Del (Avg) F = 180.7
32040	8:54:00	79.3	145.9	178.5	0.0	7.30	2.8	
32055	8:54:15	79.2	145.9	178.5	0.0	7.29	2.8	
32070	8:54:30	79.0	145.9	178.5	0.0	7.28	2.8	
32085	8:54:45	79.0	145.9	178.6	0.0	7.27	2.8	
32100	8:55:00	79.0	145.8	179.0	0.0	7.29	2.8	
32115	8:55:15	78.7	145.9	179.1	0.0	7.30	2.8	
32130	8:55:30	78.6	146.0	179.2	0.0	7.29	2.8	
32145	8:55:45	78.7	145.9	179.3	0.0	7.31	2.8	
32160	8:56:00	79.2	146.0	179.2	0.0	7.30	2.8	
32175	8:56:15	79.8	146.1	179.4	0.0	7.30	2.8	
32190	8:56:30	78.8	146.3	179.7	0.0	7.30	2.8	
32205	8:56:45	78.6	146.3	179.3	0.0	7.29	2.8	
32220	8:57:00	79.0	146.4	179.5	0.0	7.32	2.8	
32235	8:57:15	79.0	146.4	179.4	0.0	7.29	2.8	
32250	8:57:30	78.6	146.5	178.9	0.0	1.58	2.8	
32265	8:57:45	78.9	146.4	171.6	0.0	0.08	2.7	
32280	8:58:00	79.3	146.6	160.3	0.0	0.03	0.1	
32295	8:58:15	79.3	146.2	153.0	0.0	0.02	0.1	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
32310	8:58:30	78.9	143.4	150.3	0.0	0.01	0.0	
32325	8:58:45	78.2	118.1	148.7	0.0	0.01	0.0	
32340	8:59:00	78.6	94.4	148.1	0.0	0.01	0.0	Start Zero OUT
32355	8:59:15	78.5	83.7	147.7	0.0	0.00	0.0	
32370	8:59:30	78.3	78.5	147.5	0.0	0.00	0.0	
32385	8:59:45	78.6	75.8	147.3	0.0	0.00	0.0	
32400	9:00:00	78.8	74.0	145.6	0.0	0.00	0.0	
32415	9:00:15	79.7	72.8	139.2	0.0	0.00	0.0	
32430	9:00:30	80.0	71.9	128.2	0.0	0.00	0.0	
32445	9:00:45	80.3	71.2	116.1	0.0	0.00	0.0	
32460	9:01:00	79.7	70.8	104.5	0.0	0.00	0.0	
32475	9:01:15	79.7	70.3	94.1	0.0	0.00	0.0	
32490	9:01:30	79.2	69.9	87.3	0.0	0.00	0.0	
32505	9:01:45	80.3	69.6	82.5	0.0	0.00	0.0	
32520	9:02:00	80.4	69.4	79.2	0.0	0.00	0.0	
32535	9:02:15	80.1	69.2	77.2	0.0	0.00	0.0	
32550	9:02:30	80.7	69.0	75.5	0.0	0.00	0.0	
32565	9:02:45	80.7	68.8	74.5	0.0	0.00	0.0	
32580	9:03:00	80.8	68.6	73.5	0.0	0.00	0.0	
32595	9:03:15	81.0	68.5	72.8	0.0	0.00	0.0	
32610	9:03:30	80.4	68.3	72.3	0.0	0.00	0.0	
32625	9:03:45	80.6	68.2	71.9	0.0	0.00	0.0	
32640	9:04:00	80.5	68.1	71.4	0.0	0.00	0.0	Analyzer Zero OUT
32655	9:04:15	80.3	68.0	71.1	0.0	0.00	0.0	
32670	9:04:30	79.8	67.9	70.8	0.0	0.00	0.0	
32685	9:04:45	80.0	67.8	70.6	93.3	0.06	0.0	
32700	9:05:00	80.4	67.7	70.4	815.5	9.01	0.0	
32715	9:05:15	80.2	67.6	70.1	944.0	9.42	12.8	
32730	9:05:30	79.4	67.5	70.0	954.9	9.47	25.8	
32745	9:05:45	79.9	67.4	69.8	958.7	9.49	26.0	
32760	9:06:00	79.3	67.3	69.6	959.7	9.49	26.1	
32775	9:06:15	79.8	67.2	69.6	960.3	9.49	26.1	
32790	9:06:30	79.1	67.2	69.5	960.3	9.49	26.2	
32805	9:06:45	78.1	67.1	69.3	960.8	9.50	26.2	
32820	9:07:00	77.5	67.1	69.2	960.8	9.50	26.2	Start High Span OUT
32835	9:07:15	77.3	67.1	69.1	960.8	9.50	26.2	
32850	9:07:30	77.5	67.0	69.0	960.8	9.50	26.3	
32865	9:07:45	78.2	67.0	68.9	960.8	9.50	26.3	
32880	9:08:00	78.7	67.0	68.9	960.8	9.50	26.3	
32895	9:08:15	78.3	67.1	68.9	961.3	9.50	26.3	
32910	9:08:30	78.0	67.0	68.8	961.3	9.50	26.3	
32925	9:08:45	77.1	67.1	68.9	961.3	9.50	26.3	
32940	9:09:00	77.4	67.2	69.0	961.3	9.50	26.4	
32955	9:09:15	77.6	67.3	69.0	961.3	9.50	26.4	
32970	9:09:30	77.3	67.5	69.1	961.3	9.50	26.3	
32985	9:09:45	77.3	67.6	69.2	961.3	9.50	26.4	
33000	9:10:00	77.2	67.7	69.3	961.3	9.50	26.3	
33015	9:10:15	77.1	67.8	69.4	961.3	9.50	26.3	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
33030	9:10:30	77.3	67.9	69.5	961.3	9.50	26.3	
33045	9:10:45	77.6	67.9	69.6	961.9	9.50	26.4	
33060	9:11:00	77.9	68.0	69.6	961.9	9.50	26.4	
33075	9:11:15	77.6	68.1	69.7	962.4	9.51	26.3	
33090	9:11:30	77.8	68.2	69.9	961.9	9.50	26.4	
33105	9:11:45	77.6	68.2	70.1	961.9	9.50	26.4	
33120	9:12:00	78.2	68.3	70.2	961.9	9.49	26.4	Analyzer High Span OUT
33135	9:12:15	78.1	68.5	70.6	961.9	9.50	26.4	
33150	9:12:30	78.3	68.5	70.9	961.8	9.49	26.3	
33165	9:12:45	78.8	68.6	71.1	876.4	9.46	26.2	
33180	9:13:00	78.6	68.7	71.3	540.6	5.23	26.3	
33195	9:13:15	78.5	68.8	71.5	499.3	5.03	20.5	
33210	9:13:30	78.1	68.9	71.7	494.0	5.01	14.5	
33225	9:13:45	77.9	69.0	71.8	492.4	5.00	14.4	
33240	9:14:00	78.7	69.1	72.0	491.9	5.00	14.4	
33255	9:14:15	78.5	69.2	72.1	491.3	5.00	14.4	
33270	9:14:30	78.5	69.2	72.2	491.9	5.01	14.4	
33285	9:14:45	78.7	69.4	72.3	491.3	5.00	14.4	
33300	9:15:00	78.7	69.4	72.4	491.9	5.01	14.4	Start Mid Span OUT
33315	9:15:15	79.1	69.5	72.5	491.9	5.01	14.3	
33330	9:15:30	79.4	69.6	72.5	491.9	5.00	14.3	
33345	9:15:45	78.6	69.7	72.6	491.9	5.00	14.4	
33360	9:16:00	78.7	69.8	72.7	491.9	5.00	14.3	
33375	9:16:15	78.2	69.9	72.8	491.9	5.00	14.3	
33390	9:16:30	78.3	69.9	72.9	491.9	5.01	14.3	
33405	9:16:45	78.4	70.1	73.0	491.9	5.00	14.3	
33420	9:17:00	77.9	70.2	73.0	491.9	5.00	14.3	
33435	9:17:15	77.7	70.3	73.2	491.9	5.00	14.3	
33450	9:17:30	77.6	70.3	73.2	491.9	5.00	14.3	
33465	9:17:45	77.8	70.5	73.3	491.9	5.00	14.3	
33480	9:18:00	77.9	70.5	73.3	491.9	5.00	14.3	
33495	9:18:15	78.3	70.6	73.4	491.9	5.00	14.3	
33510	9:18:30	78.3	70.7	73.4	491.9	5.00	14.3	
33525	9:18:45	77.9	70.8	73.5	491.9	5.00	14.3	
33540	9:19:00	78.0	70.9	73.6	492.4	5.00	14.3	
33555	9:19:15	78.3	70.9	73.6	491.9	5.00	14.3	
33570	9:19:30	78.3	71.0	73.7	491.9	5.00	14.3	
33585	9:19:45	78.2	71.1	73.8	491.9	5.00	14.3	
33600	9:20:00	78.2	71.1	73.8	492.4	5.00	14.4	Analyzer Mid Span OUT
33615	9:20:15	78.0	71.1	73.8	491.9	5.00	14.4	
33630	9:20:30	78.5	71.2	73.8	492.4	5.00	14.4	
33645	9:20:45	78.5	71.2	73.9	491.9	5.00	14.4	
33660	9:21:00	78.5	71.2	73.9	491.9	5.00	13.7	
33675	9:21:15	78.6	71.3	73.9	296.6	2.98	14.2	
33690	9:21:30	78.7	71.3	74.0	244.1	2.60	10.6	
33705	9:21:45	78.5	71.3	74.0	238.5	2.57	6.7	
33720	9:22:00	79.0	71.4	74.1	236.9	2.57	6.8	
33735	9:22:15	79.0	71.4	74.1	236.4	2.57	6.8	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
33750	9:22:30	78.8	71.4	74.1	236.4	2.57	6.8	Start Low Span OUT
33765	9:22:45	78.6	71.5	74.1	235.9	2.57	6.8	
33780	9:23:00	78.0	71.5	74.2	235.9	2.57	6.8	
33795	9:23:15	78.6	71.5	74.2	235.9	2.57	6.8	
33810	9:23:30	78.5	71.6	74.2	235.9	2.57	6.8	
33825	9:23:45	78.2	71.6	74.2	235.9	2.57	6.8	
33840	9:24:00	78.0	71.7	74.3	235.9	2.57	6.8	
33855	9:24:15	77.4	71.7	74.3	236.4	2.57	6.8	
33870	9:24:30	78.1	71.7	74.3	235.9	2.57	6.8	
33885	9:24:45	78.0	71.7	74.3	235.9	2.57	6.8	
33900	9:25:00	78.0	71.8	74.4	236.4	2.57	6.8	
33915	9:25:15	77.6	71.8	74.4	236.4	2.57	6.8	
33930	9:25:30	77.3	71.9	74.4	235.9	2.57	6.8	
33945	9:25:45	77.2	71.9	74.5	235.9	2.57	6.8	
33960	9:26:00	78.2	72.0	74.5	236.4	2.57	6.8	
33975	9:26:15	77.7	72.0	74.5	235.9	2.57	6.8	Analyzer Low Span OUT
33990	9:26:30	77.9	72.0	74.5	236.4	2.57	6.8	
34005	9:26:45	78.1	72.0	74.5	236.4	2.57	6.8	
34020	9:27:00	78.4	72.1	74.6	235.9	2.57	6.8	
34035	9:27:15	77.9	72.2	74.6	235.9	2.57	6.8	
34050	9:27:30	78.4	72.2	74.7	235.9	2.57	6.8	
34065	9:27:45	78.9	72.2	74.6	235.9	2.57	6.8	
34080	9:28:00	78.6	72.2	74.7	235.9	2.57	6.8	
34095	9:28:15	78.7	72.2	74.7	235.9	2.57	6.8	
34110	9:28:30	79.1	72.3	74.7	235.9	2.57	6.8	
34125	9:28:45	78.8	72.3	74.7	227.4	2.57	6.8	
34140	9:29:00	78.7	72.3	74.8	34.9	0.68	6.8	
34155	9:29:15	78.8	72.3	74.8	0.0	0.06	3.7	Start Zero Bias OUT
34170	9:29:30	78.6	72.4	74.8	0.0	0.02	0.4	
34185	9:29:45	79.0	72.4	74.8	0.0	0.01	0.4	
34200	9:30:00	78.8	72.5	74.9	0.0	0.00	0.4	
34215	9:30:15	79.4	72.5	74.9	0.0	0.00	0.4	
34230	9:30:30	78.4	72.4	74.8	0.0	0.00	0.3	
34245	9:30:45	79.1	72.5	74.9	0.0	0.00	0.3	
34260	9:31:00	79.4	72.6	74.9	0.0	0.00	0.3	
34275	9:31:15	79.7	72.6	74.9	0.0	0.00	0.3	
34290	9:31:30	78.7	72.7	75.0	0.0	0.00	0.3	
34305	9:31:45	79.2	72.6	75.0	0.0	0.00	0.3	
34320	9:32:00	78.7	72.7	75.0	0.0	0.00	0.3	
34335	9:32:15	78.9	72.7	75.0	0.0	0.00	0.3	
34350	9:32:30	79.6	72.8	75.0	0.0	0.00	0.3	
34365	9:32:45	79.1	72.8	75.0	0.0	0.00	0.3	
34380	9:33:00	79.5	72.8	75.0	0.0	0.00	0.3	
34395	9:33:15	78.4	72.8	75.1	0.0	0.00	0.2	
34410	9:33:30	78.9	72.9	75.1	0.0	0.00	0.2	
34425	9:33:45	78.4	72.9	75.1	0.0	0.00	0.2	
34440	9:34:00	79.2	72.9	75.2	0.0	0.00	0.2	
34455	9:34:15	78.3	72.9	75.2	0.0	0.00	0.2	

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Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
34470	9:34:30	79.5	73.0	75.2	0.0	0.00	0.2	
34485	9:34:45	79.5	73.0	75.2	0.0	0.00	0.2	
34500	9:35:00	78.6	73.0	75.2	0.0	0.00	0.2	
34515	9:35:15	78.8	73.0	75.2	0.0	0.00	0.2	
34530	9:35:30	78.8	73.1	75.3	0.0	0.00	0.2	
34545	9:35:45	79.3	73.1	75.2	0.0	0.00	0.2	
34560	9:36:00	79.3	73.0	75.2	0.0	0.00	0.2	System Zero OUT
34575	9:36:15	78.5	73.1	75.3	0.0	0.00	0.2	
34590	9:36:30	79.4	73.2	75.4	0.0	0.00	0.2	
34605	9:36:45	79.8	73.2	75.3	0.0	0.00	0.1	
34620	9:37:00	79.3	73.2	75.4	0.0	0.00	0.1	
34635	9:37:15	78.8	73.3	75.4	5.6	0.03	0.1	
34650	9:37:30	79.9	73.3	75.3	373.5	4.32	0.1	
34665	9:37:45	80.2	73.2	75.4	469.0	4.87	0.1	
34680	9:38:00	80.6	73.3	75.4	478.6	4.95	0.1	
34695	9:38:15	80.8	73.4	75.4	481.8	4.97	0.1	
34710	9:38:30	80.7	73.3	75.5	483.4	4.97	0.1	
34725	9:38:45	80.7	73.3	75.4	483.9	4.98	0.1	
34740	9:39:00	80.7	73.4	75.4	483.9	4.98	0.1	Start Mid CO/CO2 Bias OUT
34755	9:39:15	80.3	73.4	75.4	483.9	4.99	0.1	
34770	9:39:30	80.2	73.4	75.5	483.9	4.98	0.1	
34785	9:39:45	80.2	73.5	75.5	483.9	4.99	0.1	
34800	9:40:00	80.4	73.5	75.5	483.9	4.99	0.1	
34815	9:40:15	80.6	73.5	75.6	483.9	4.99	0.1	
34830	9:40:30	79.7	73.5	75.6	483.9	4.99	0.1	
34845	9:40:45	79.7	73.6	75.5	484.4	4.99	0.1	
34860	9:41:00	80.2	73.6	75.6	484.4	4.99	0.1	
34875	9:41:15	80.3	73.6	75.6	484.4	4.99	0.1	
34890	9:41:30	80.1	73.7	75.7	484.4	4.99	0.1	
34905	9:41:45	80.0	73.6	75.6	484.4	4.99	0.1	
34920	9:42:00	79.8	73.7	75.6	484.4	4.99	0.1	
34935	9:42:15	79.6	73.8	75.7	484.4	4.99	0.1	
34950	9:42:30	79.5	73.7	75.6	484.4	4.99	0.1	
34965	9:42:45	79.5	73.7	75.7	484.4	4.99	0.1	
34980	9:43:00	80.0	73.8	75.7	484.4	4.99	0.1	
34995	9:43:15	79.5	73.9	75.8	484.4	4.99	0.1	
35010	9:43:30	79.7	73.8	75.7	484.4	4.99	0.1	
35025	9:43:45	78.7	73.9	75.8	484.4	4.99	0.1	
35040	9:44:00	78.2	73.9	75.8	484.4	4.99	0.1	System Mid CO/CO2 OUT
35055	9:44:15	78.8	73.9	75.7	484.4	4.99	0.1	
35070	9:44:30	79.0	74.0	75.7	484.4	4.99	0.1	
35085	9:44:45	78.9	74.0	75.9	484.4	4.99	0.1	
35100	9:45:00	78.6	74.0	75.9	484.4	4.99	0.1	
35115	9:45:15	79.3	74.0	75.9	484.4	4.99	0.1	
35130	9:45:30	79.6	74.1	75.9	174.7	1.50	0.1	
35145	9:45:45	79.5	74.2	75.9	125.9	1.07	0.1	
35160	9:46:00	79.0	74.1	75.9	216.1	2.49	0.1	
35175	9:46:15	79.5	74.2	76.0	225.8	2.56	0.1	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
35190	9:46:30	79.8	74.2	76.0	228.9	2.57	0.1	
35205	9:46:45	79.0	74.2	76.0	229.5	2.57	0.1	
35220	9:47:00	79.4	74.2	76.0	230.0	2.57	0.1	Start Low CO/CO2 Bias OUT
35235	9:47:15	78.7	74.3	76.0	230.0	2.57	0.1	
35250	9:47:30	80.1	74.3	76.1	230.0	2.57	0.1	
35265	9:47:45	80.0	74.3	76.0	230.0	2.57	0.1	
35280	9:48:00	80.4	74.2	76.1	230.0	2.57	0.1	
35295	9:48:15	79.6	74.4	76.0	230.0	2.57	0.1	
35310	9:48:30	79.3	74.3	76.1	230.0	2.57	0.1	
35325	9:48:45	79.7	74.4	76.1	230.0	2.57	0.1	
35340	9:49:00	79.8	74.4	76.1	230.0	2.57	0.1	
35355	9:49:15	79.8	74.4	76.1	230.0	2.57	0.1	
35370	9:49:30	80.4	74.4	76.2	230.0	2.57	0.1	
35385	9:49:45	78.8	74.4	76.1	230.0	2.57	0.1	
35400	9:50:00	79.8	74.4	76.2	230.0	2.57	0.1	
35415	9:50:15	78.9	74.5	76.1	230.0	2.57	0.1	
35430	9:50:30	79.2	74.5	76.1	230.0	2.57	0.0	
35445	9:50:45	79.3	74.5	76.2	230.0	2.57	0.0	
35460	9:51:00	78.8	74.5	76.2	230.0	2.57	0.0	
35475	9:51:15	79.4	74.5	76.2	230.0	2.57	0.0	
35490	9:51:30	78.6	74.5	76.2	230.0	2.57	0.0	
35505	9:51:45	79.9	74.6	76.2	230.0	2.57	0.0	
35520	9:52:00	79.6	74.5	76.2	230.0	2.57	0.0	System Low CO/CO2 OUT
35535	9:52:15	80.3	74.6	76.2	230.0	2.57	0.0	
35550	9:52:30	79.7	74.6	76.2	229.5	2.57	0.0	
35565	9:52:45	79.5	74.6	76.2	230.0	2.57	0.0	
35580	9:53:00	79.3	74.6	76.2	229.8	2.57	0.0	
35595	9:53:15	80.0	74.6	76.2	135.3	1.97	0.0	
35610	9:53:30	79.2	74.6	76.2	8.6	0.13	0.0	
35625	9:53:45	79.5	74.6	76.2	0.0	0.03	0.0	
35640	9:54:00	79.4	74.6	76.2	0.0	0.01	13.4	
35655	9:54:15	79.9	74.6	76.3	0.0	0.00	13.7	
35670	9:54:30	79.7	74.7	76.3	0.0	0.00	13.9	
35685	9:54:45	79.6	74.7	76.3	0.0	0.00	13.9	
35700	9:55:00	79.5	74.7	76.3	0.0	0.00	14.0	Start Mid NOx Bias OUT
35715	9:55:15	79.6	74.8	76.4	0.0	0.00	14.0	
35730	9:55:30	79.4	74.7	76.3	0.0	0.00	14.0	
35745	9:55:45	79.9	74.7	76.3	0.0	0.00	14.0	
35760	9:56:00	80.0	74.7	76.3	0.0	0.00	14.0	
35775	9:56:15	79.6	74.7	76.4	0.0	0.00	14.0	
35790	9:56:30	79.7	74.8	76.3	0.0	0.00	14.0	
35805	9:56:45	79.4	74.8	76.3	0.0	0.00	14.0	
35820	9:57:00	79.5	74.8	76.4	0.0	0.00	14.0	
35835	9:57:15	79.8	74.8	76.4	0.0	0.00	14.0	
35850	9:57:30	79.6	74.9	76.4	0.0	0.00	14.0	
35865	9:57:45	79.4	74.8	76.3	0.0	0.00	14.0	
35880	9:58:00	79.5	74.8	76.4	0.0	0.00	14.0	
35895	9:58:15	80.0	74.8	76.3	0.0	0.00	14.0	

Manufacturer: RIELLO
Model No.: SSB 255

Date: June 19, 2015

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
35910	9:58:30	79.2	74.9	76.4	0.0	0.00	14.0	
35925	9:58:45	79.4	74.9	76.4	0.0	0.00	14.0	
35940	9:59:00	78.2	74.9	76.4	0.0	0.00	14.0	
35955	9:59:15	78.9	74.9	76.4	0.0	0.00	14.0	
35970	9:59:30	79.7	74.9	76.5	0.0	0.00	14.0	
35985	9:59:45	79.4	74.9	76.4	0.0	0.00	14.0	
36000	10:00:00	78.9	74.9	76.4	0.0	0.00	14.1	System Mid NOx OUT
36015	10:00:15	78.8	74.9	76.5	0.0	0.00	14.0	
36030	10:00:30	79.6	74.9	76.4	0.0	0.00	14.0	
36045	10:00:45	79.3	75.0	76.5	0.0	0.01	14.0	
36060	10:01:00	79.1	75.0	76.6	0.0	0.03	8.6	
36075	10:01:15	79.6	75.1	76.5	0.0	0.01	4.7	
36090	10:01:30	79.8	75.1	76.6	0.0	0.00	3.6	
36105	10:01:45	79.7	75.1	76.6	0.0	0.00	6.5	
36120	10:02:00	79.8	75.2	76.6	0.0	0.00	6.7	
36135	10:02:15	80.2	75.2	76.7	0.0	0.00	6.7	
36150	10:02:30	80.3	75.2	76.6	0.0	0.00	6.7	
36165	10:02:45	80.4	75.2	76.6	0.0	0.00	6.7	
36180	10:03:00	80.6	75.2	76.6	0.0	0.00	6.7	Start Low NOx Bias OUT
36195	10:03:15	80.6	75.1	76.6	0.0	0.00	6.7	
36210	10:03:30	80.5	75.1	76.6	0.0	0.00	6.7	
36225	10:03:45	80.4	75.1	76.6	0.0	0.00	6.7	
36240	10:04:00	80.6	75.1	76.6	0.0	0.00	6.7	
36255	10:04:15	80.7	75.1	76.6	0.0	0.00	6.7	
36270	10:04:30	80.5	75.1	76.5	0.0	0.00	6.7	
36285	10:04:45	80.7	75.0	76.6	0.0	0.00	6.7	
36300	10:05:00	80.7	75.1	76.6	0.0	0.00	6.7	
36315	10:05:15	80.7	75.1	76.5	0.0	0.00	6.7	
36330	10:05:30	80.7	75.1	76.5	0.0	0.00	6.7	
36345	10:05:45	80.8	75.1	76.5	0.0	0.00	6.7	
36360	10:06:00	80.5	75.1	76.5	0.0	0.00	6.7	
36375	10:06:15	80.9	75.2	76.6	0.0	0.00	6.7	
36390	10:06:30	80.7	75.3	76.6	0.0	0.00	6.7	
36405	10:06:45	81.1	75.2	76.6	0.0	0.00	6.7	
36420	10:07:00	81.2	75.1	76.6	0.0	0.00	6.7	
36435	10:07:15	81.1	75.3	76.6	0.0	0.00	6.7	
36450	10:07:30	80.9	75.3	76.7	0.0	0.00	6.7	
36465	10:07:45	81.0	75.3	76.7	0.0	0.00	6.7	
36480	10:08:00	81.2	75.3	76.7	0.0	0.00	6.7	System Low NOx OUT
36495	10:08:15	81.1	75.3	76.7	0.0	0.00	6.7	
36510	10:08:30	81.1	75.3	76.7	0.0	0.00	6.7	
36525	10:08:45	81.3	75.4	76.7	0.0	0.00	6.7	
36540	10:09:00	81.4	75.4	76.7	0.0	0.00	6.7	
36555	10:09:15	81.2	75.3	76.7	0.0	0.00	6.7	
Average =		78.9						

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