

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**

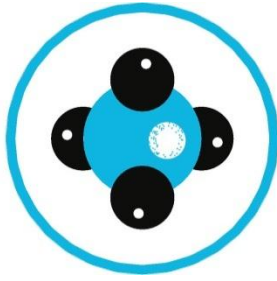
July 17, 2015

One (1) gas-fired Hot Water Boiler, SSB 85 from Riello, was 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 YRL01-01), 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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NO_x Emissions Test Report

for

Riello
2165 Meadowpine Boulevard
L5N 6H6 Mississauga - Ontario

Gas-Fired Hot Water Boilers

SSB- 85

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. YRL01-01]

July 17, 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	SSB 85 High: 85 MBH Low: 17 MBH	Maximum =	84,681	9.3	17.1	7/8/2015
		Intermediate =	51,963	4.5	8.2	7/8/2015
		Minimum =	17,291	5.8	9.4	7/10/2015
2		Maximum =	84,546	9.4	17.3	7/8/2015
		Intermediate =	51,897	4.4	8.1	7/8/2015
		Minimum =	17,315	5.6	8.3	7/10/2015
3		Maximum =	83,861	8.0	15.0	7/9/2015
		Intermediate =	51,781	4.0	7.4	7/9/2015
		Minimum =	17,016	4.9	7.4	7/13/2015

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: Sprague-Schlumberger

Model No.: DTM-160T (Tag #022)

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 NO_x Analyzer

Supplier:	Airgas Great Lakes, Inc		
Accuracy:	NIST Traceable to $\pm 1\%$		
<u>Cylinder No.</u>	<u>NO_x(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

Page 1 of 32-400470841-1B

GCI#1054

Received 6 MAR 15



Airgas USA, LLC

2009 BELLAIRE AVENUE

ROYAL OAK, MI 48067

248-399-8020

www.airgas.com

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 (i.e. 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:

Approved for Release

GCI #1038

**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
Part Number: E02NI99E15A3577
Cylinder Number: CC267435
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62015
Gas Code: NO,NOX,BALN

Reference Number: 32-400470840-1A
Cylinder Volume: 144.3 CF
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Certification Date: Jan 20, 2015

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



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



1WS service 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 Date
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:	Sprague-Schlumberger
MODEL NUMBER:	160T (Tag #022)
SERIAL NUMBER:	93S4853377
DATE PURCHASED:	— — —
SPECIFICATION, CAPACITY, ETC.	4- 320 SCFH
CALIBRATION INTERVAL IN MONTHS:	See Attached Certificate of Calibration
LAST CALIBRATED:	3-March-2015
CALIBRATION DUE DATE:	3-March-2016
INSTRUMENT SERVICE COMPANY:	Broadview Instrumentation Services, Inc. Valley View, Ohio.

BROADVIEW INSTRUMENTATION SERVICES, INC.

CERTIFICATE OF CALIBRATION



10060 Nov. '10 Rev. 2.20

7632 Hub Parkway Valley View, OHIO 44125

216-525-0050

NAME:	Gas Consultants Inc.	PURCHASE ORDER	CAL022415RSSA
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:	Sprague-Schlumberger	CALIBRATION DATE	3-Mar-15
MODEL:	160T Gas Meter	CALIBRATION DUE	3-Mar-16
SERIAL / ASSET:	93S4853377 022	TEMP/ RH%	23°C / 30.9%

	NOMINAL VALUE	AS FOUND	TUR	DEVIATION	AS LEFT	DEVIATION	U (95%)
scfh				± 0.25 % FS			scfh
	4.00	4.022		0.007%	4.022	0.007%	5.8E-02
	32.00	31.721		-0.087%	31.721	-0.087%	5.9E-02
	160.00	160.151		0.047%	160.151	0.047%	9.1E-02
	320.00	320.718		0.224%	320.718	0.224%	1.6E-01

STP 15.55°C @ 1 ATM

EQUIPMENT USED IN CALIBRATION:

QC#	MANUFACTURER	MODEL	DATE DUE
0557	DHI	5E2-VCR-V-Q	7-Nov-16
0666	DHI	2E2-S Molbloc-S	20-Oct-16
0869	DHI	5E2-S	31-Jan-16
0556	DHI	A700K	3-Oct-15
0941	OSLO	SILVER 2.0	13-Mar-15

BIS TEST REPORT NO: 420668109

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

Customer approval:

Reviewed By:

Courtney G.

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



10037 Nov. '10 Rev. 3.21

7632 Hub Parkway Valley View, OHIO 44125

216-525-0050

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	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			±1.0°F		±1.0°F	°F
42.46	43.4		0.9	43.4	0.9	2.4E-01
69.57	69.8		0.2	69.8	0.2	2.4E-01
109.76	109.5		-0.3	109.5	-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: 420063913

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.

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 # 49230364Range: .75 to 25 gpm
(historical cal. went to 50 gpm)

Read Out Device: Model # N/A

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.



901 Emery Avenue | Cleveland, OH 44135
362.0364 | ocscal.com | info@ocscal.com

Certificate of Calibration



CUSTOMER:
GAS CONSULTANTS
7590 INDEPENDENCE DRIVE
WALTON HILLS, OH 44146

ASSET NUMBER:	B27065	ITEM 099	PERFORMED ON:	13 May 2014
OWNER ASSET #:			DATE DUE:	30 Nov 2014
UNIT UNDER TEST:	GSE 465		TEST RESULT:	PASS
	FLOOR SCALE, 48"X48", 1000# X 0.1#		DATA TYPE:	AS-LEFT
SERIAL NUMBER:	151585		TEMP / HUMIDITY:	81.0 °F / 51 %RH
LOCATION:	NORTH WALL		SERVICE SITE:	ON-SITE
PROCEDURE NAME:	NIST HANDBOOK 44,LBS,2 STDS		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.							

REPEATABILITY 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

Certificate # 819C997696B3324B8D8C0B5C68743BA1

Date Printed: 15 May 2014

Form No.: 133 Rev 04/2014

Page 1 of 1



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

Certificate of Calibration



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

CERT# L1152-1 Calibration / Dim Insp

CUSTOMER:
GAS CONSULTANTS
7590 INDEPENDENCE DRIVE
WALTON HILLS, OH 44146

Tab 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:

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

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 Ciehanoski

Ed Ciehanoski
Production Supervisor



25971 Cannon Road
Cleveland, OH 44146
440.439.4091
www.iotech.com



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.

APPENDIX B

Test Results for:

SSB 85

High & Intermediate Run#: 1 & 2

Date: July 8, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Maximum Rate

Input Rate = 85,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	72.2	73.1	°F
Relative Humidity	54	54	%
Barometer	29.02	29.02	in.Hg
Heating Value	1090	1090	BTU/ft ³
Inlet Pressure	7.7	7.7	in.w.c.
Manifold Pressure	-0.20	-0.2	in.w.c.
Gas Meter Reading	24.15	64.37	ft ³
Gas Temperature	71.0	71.0	°F
Water Meter Reading	698052.00	698096.3	gal

Mass	369.0	lb
Di	8.329	lb/gal
Dn	8.240	lb/gal

Tin	70.3	°F
Tdel	179.2	°F

Calculations		
Test Start	2:42:00	h:mm:ss
Test End	3:12:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	84,681	BTU/hr
Cf	1.101	no units
Ho	40,099	BTU
Uncorrected Volume	40.22	ft ³
Pressure Correction	0.986	no units
Meter Correction	1.000	no units
Temperature Correction	0.979	no units
F	38.84	ft ³
C	8.7	%
P	14.6	ppm

N = 9.3 ng/J
17.1 ppm @ 3% O2

Date: July 8, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Maximum Rate

Input Rate = 85,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	75.2	75.4	°F
Relative Humidity	52	52	%
Barometer	29.00	29	in.Hg
Heating Value	1090	1090	BTU/ft ³
Inlet Pressure	7.6	7.6	in.w.c.
Manifold Pressure	-0.20	-0.20	in.w.c.
Gas Meter Reading	84.65	125.07	ft ³
Gas Temperature	74.0	74.0	°F
Water Meter Reading	698313.00	698357.3	gal

Mass	369.0	lb
Di	8.329	lb/gal
Dn	8.240	lb/gal

Tin	70.1	°F
Tdel	179.0	°F

Calculations		
Test Start	6:03:00	h:mm:ss
Test End	6:33:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	84,546	BTU/hr
Cf	1.101	no units
Ho	40,100	BTU
Uncorrected Volume	40.42	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.974	no units
F	38.78	ft ³
C	8.8	%
P	14.9	ppm

N = 9.4 ng/J
17.3 ppm @ 3% O₂

Date: July 8, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Intermediate Rate

Input Rate = 51,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	73.2	75.2	°F
Relative Humidity	54	54	%
Barometer	29.01	29.01	in.Hg
Heating Value	1090	1090	BTU/ft ³
Inlet Pressure	7.4	7.4	in.w.c.
Manifold Pressure	-0.2	-0.2	in.w.c.
Gas Meter Reading	109.25	134.05	ft ³
Gas Temperature	73.0	73.0	°F
Water Meter Reading	698153.00	698179.90	gal

Mass	224.0	lb
Di	8.327	lb/gal
Dn	8.238	lb/gal

Tin	71.4	°F
Tdel	179.4	°F

Calculations		
Test Start	4:09:00	h:mm:ss
Test End	4:39:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	51,963	BTU/hr
Cf	1.101	no units
Ho	24,145	BTU
Uncorrected Volume	24.80	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.976	no units
F	23.84	ft ³
C	8.0	%
P	6.4	ppm

N = 4.5 ng/J
8.2 ppm @ 3% O₂

Date: July 8, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Intermediate Rate

Input Rate = 51,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	74.7	75.0	°F
Relative Humidity	52	52	%
Barometer	29.00	29	in.Hg
Heating Value	1090	1090	BTU/ft ³
Inlet Pressure	7.4	7.4	in.w.c.
Manifold Pressure	-0.20	-0.2	in.w.c.
Gas Meter Reading	149.08	173.95	ft ³
Gas Temperature	75.0	75.0	°F
Water Meter Reading	698385.00	698412.40	gal

Mass	228.2	lb
Di	8.327	lb/gal
Dn	8.238	lb/gal

Tin	71.4	°F
Tdel	179.2	°F

Calculations		
Test Start	6:55:00	h:mm:ss
Test End	7:25:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	51,897	BTU/hr
Cf	1.101	no units
Ho	24,548	BTU
Uncorrected Volume	24.87	ft ³
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.972	no units
F	23.81	ft ³
C	8.0	%
P	6.3	ppm

N = 4.4 ng/J
8.1 ppm @ 3% O₂

Date: July 8, 2015

High & Intermediate Run#: 1 & 2

Manufacturer: Riello
Model No.: SSB 85
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	0.05			-0.17
NOx Low	6.95	6.89			0.20	6.75			-0.67
NOx Mid	14.56	14.58			-0.07	14.23			1.10
NOx High	26.66	26.73			-0.23				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.58		0.14		2.57		0.24
CO2 Mid	5.007		5.01		-0.03		5.00		0.07
CO2 High	9.488		9.49		-0.02				
CO Zero	0			0.00	0.00			0.00	0.00
CO Low	249.0			241.78	0.72			237.53	1.15
CO Mid	502.5			501.54	0.10			494.62	0.79
CO High	976			974.75	0.13				

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	0.02			-0.07	0.31			-1.03	0.87
NOx Low	6.95	6.87			0.27	6.76			0.63	0.03
NOx Mid	14.56	14.50			0.20	14.23			1.10	0.00
NOx High	26.66	26.68			-0.07					
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		4.82		1.87	-1.80
CO2 High	9.488		9.50		-0.12					
CO Zero	0			0.00	0.00			0.00	0.00	0.00
CO Low	249.0			236.95	1.21			232.16	1.68	-0.54
CO Mid	502.5			495.63	0.69			469.56	3.29	-2.51
CO High	976			967.77	0.82					

Calibration Linearity

NOx Pretest	0.061
CO2 Pretest	-0.019
CO Pretest	0.032

NOx Post Test	0.200
CO2 Post Test	0.033
CO Post Test	0.263

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

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	71.2	67.5	61.4	1.7	0.00	0.0	
15	0:00:15	71.4	50.6	46.0	1.7	0.00	0.0	
30	0:00:30	72.0	51.2	46.6	2.3	0.00	0.0	
45	0:00:45	72.9	49.8	44.8	1.7	0.00	0.0	
60	0:01:00	73.1	50.0	45.8	1.7	0.00	0.0	Start Zero IN
75	0:01:15	73.0	49.7	45.8	1.7	0.00	0.0	
90	0:01:30	73.6	50.7	46.8	1.7	0.00	0.0	
105	0:01:45	73.5	49.0	45.0	1.7	0.00	0.0	
120	0:02:00	72.1	50.0	46.2	0.0	0.00	0.0	
135	0:02:15	72.5	-17.9	131.3	0.0	0.00	0.0	
150	0:02:30	72.4	89.9	16.8	0.0	0.00	0.0	
165	0:02:45	72.5	-9.7	115.8	0.0	0.00	0.0	
180	0:03:00	72.2	0.5	70.1	0.0	0.00	0.0	
195	0:03:15	72.5	69.5	70.1	0.0	0.00	0.0	
210	0:03:30	72.5	69.5	70.1	0.0	0.00	0.0	
225	0:03:45	72.6	69.5	70.1	0.0	0.00	0.0	
240	0:04:00	72.9	69.5	70.1	0.0	0.00	0.0	
255	0:04:15	72.9	69.5	70.1	0.0	0.00	0.0	
270	0:04:30	73.0	69.5	70.1	0.0	0.00	0.0	
285	0:04:45	73.1	69.5	70.1	0.0	0.00	0.0	
300	0:05:00	73.0	69.6	70.1	0.0	0.00	0.0	
315	0:05:15	72.8	69.5	70.0	0.0	0.00	0.0	
330	0:05:30	72.4	69.5	70.0	0.0	0.00	0.0	
345	0:05:45	72.1	69.4	70.1	0.0	0.00	0.0	
360	0:06:00	72.0	69.4	70.1	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	71.7	69.4	70.1	0.0	0.00	0.0	
390	0:06:30	71.8	69.4	70.1	114.8	0.00	0.0	
405	0:06:45	71.8	69.4	70.1	820.9	8.16	0.3	
420	0:07:00	71.0	69.4	70.1	958.3	9.32	8.2	
435	0:07:15	71.3	69.4	70.1	968.9	9.44	15.6	
450	0:07:30	71.3	69.4	70.1	972.7	9.47	22.3	
465	0:07:45	71.0	69.5	70.1	974.3	9.48	23.3	
480	0:08:00	71.3	69.4	70.0	974.8	9.48	24.6	
495	0:08:15	71.1	69.4	70.1	974.8	9.48	24.9	
510	0:08:30	71.0	69.4	70.1	974.8	9.48	25.1	
525	0:08:45	71.2	69.5	70.1	974.8	9.49	25.2	
540	0:09:00	70.7	69.5	70.1	974.8	9.49	25.2	Start High Span IN
555	0:09:15	70.5	69.5	70.1	975.3	9.49	25.3	
570	0:09:30	70.4	69.5	70.1	975.3	9.49	25.3	
585	0:09:45	70.7	69.6	70.2	975.3	9.49	25.3	
600	0:10:00	70.9	69.6	70.2	975.3	9.49	25.4	
615	0:10:15	71.0	69.6	70.2	975.8	9.49	25.4	
630	0:10:30	71.5	69.6	70.2	976.4	10.50	25.4	
645	0:10:45	71.4	69.5	70.1	975.3	9.49	25.4	
660	0:11:00	71.4	69.5	70.1	975.3	9.49	26.7	
675	0:11:15	71.3	69.6	70.2	975.3	9.49	26.7	
690	0:11:30	71.2	69.5	70.2	975.3	9.49	26.7	
705	0:11:45	71.3	69.6	70.2	975.3	9.49	26.7	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	71.2	69.6	70.2	975.3	9.49	26.7	
735	0:12:15	71.0	69.6	70.3	975.3	9.49	26.7	
750	0:12:30	70.7	69.6	70.2	975.5	9.49	26.8	
765	0:12:45	71.0	69.5	70.2	975.3	9.49	26.7	
780	0:13:00	71.4	69.5	70.2	975.3	9.49	26.7	
795	0:13:15	71.1	69.5	70.2	975.3	9.49	26.7	
810	0:13:30	71.6	69.5	70.2	975.3	9.49	26.7	
825	0:13:45	71.8	69.4	70.1	975.3	9.49	26.7	
840	0:14:00	71.4	69.4	70.1	974.8	9.49	26.7	Analyzer High Span IN
855	0:14:15	71.1	69.4	70.1	975.3	9.49	26.7	
870	0:14:30	71.3	69.5	70.2	974.7	9.49	26.7	
885	0:14:45	71.2	69.6	70.2	627.0	5.07	26.8	
900	0:15:00	71.2	69.4	70.1	511.8	4.92	20.9	
915	0:15:15	71.6	69.5	70.1	504.2	4.99	15.1	
930	0:15:30	71.1	69.5	70.2	502.1	5.01	14.6	
945	0:15:45	70.9	69.4	70.1	501.5	5.01	14.6	
960	0:16:00	70.6	69.4	70.0	501.0	5.01	14.6	
975	0:16:15	70.6	69.4	70.1	501.0	5.01	14.6	
990	0:16:30	70.9	69.4	70.0	501.5	5.01	14.6	
1005	0:16:45	71.0	69.4	70.1	501.5	5.01	14.6	
1020	0:17:00	71.2	69.4	70.1	501.5	5.01	14.6	Start Mid Span IN
1035	0:17:15	71.3	69.4	70.1	501.5	5.01	14.6	
1050	0:17:30	71.0	69.4	70.1	501.5	5.01	14.6	
1065	0:17:45	70.8	69.4	70.1	501.5	5.01	14.6	
1080	0:18:00	71.0	69.4	70.2	501.5	5.01	14.6	
1095	0:18:15	71.3	69.5	70.1	501.5	5.01	14.6	
1110	0:18:30	71.0	69.5	70.2	501.5	5.01	14.6	
1125	0:18:45	71.0	69.6	70.2	501.5	5.01	14.6	
1140	0:19:00	71.5	69.6	70.2	501.5	5.01	14.6	
1155	0:19:15	71.1	69.5	70.2	501.5	5.01	14.6	
1170	0:19:30	71.1	69.5	70.2	501.5	5.01	14.6	
1185	0:19:45	70.8	69.6	70.2	501.5	5.01	14.6	
1200	0:20:00	70.9	69.6	70.2	501.5	5.01	14.6	
1215	0:20:15	71.4	69.5	70.2	501.5	5.01	14.6	
1230	0:20:30	71.3	69.6	70.2	501.5	5.01	14.6	
1245	0:20:45	71.2	69.5	70.2	501.0	5.01	14.6	
1260	0:21:00	70.9	69.5	70.2	501.5	5.01	14.6	
1275	0:21:15	71.4	69.5	70.2	501.5	5.01	14.6	
1290	0:21:30	71.2	69.4	70.1	501.5	5.01	14.6	
1305	0:21:45	71.4	69.5	70.2	501.5	5.01	14.6	
1320	0:22:00	71.6	69.4	70.2	501.5	5.01	14.6	Analyzer Mid Span IN
1335	0:22:15	71.5	69.5	70.1	501.5	5.01	14.6	
1350	0:22:30	71.5	69.4	70.1	501.0	5.01	14.6	
1365	0:22:45	71.5	69.4	70.1	501.0	5.01	14.5	
1380	0:23:00	71.5	69.5	70.2	402.8	4.31	14.9	
1395	0:23:15	71.8	69.5	70.2	257.0	2.60	15.4	
1410	0:23:30	71.6	69.5	70.2	246.0	2.58	2.1	
1425	0:23:45	72.0	69.5	70.2	242.8	2.58	2.9	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	72.2	69.5	70.2	242.3	2.58	4.8	
1455	0:24:15	71.9	69.5	70.2	241.8	2.58	6.0	
1470	0:24:30	71.8	69.4	70.2	241.8	2.58	6.6	
1485	0:24:45	71.8	69.4	70.2	241.8	2.58	6.7	
1500	0:25:00	71.5	69.4	70.2	241.8	2.58	6.8	Start Low Span IN
1515	0:25:15	71.4	69.4	70.2	241.8	2.58	6.8	
1530	0:25:30	70.9	69.4	70.1	241.3	2.58	6.9	
1545	0:25:45	70.6	69.4	70.1	241.3	2.58	6.9	
1560	0:26:00	70.7	69.4	70.1	241.8	2.58	6.9	
1575	0:26:15	71.1	69.4	70.1	241.8	2.58	6.9	
1590	0:26:30	70.8	69.4	70.1	241.8	2.58	6.9	
1605	0:26:45	70.4	69.4	70.1	241.8	2.58	6.9	
1620	0:27:00	70.4	69.5	70.1	241.8	2.58	6.9	
1635	0:27:15	70.1	69.4	70.1	241.8	2.58	6.9	
1650	0:27:30	69.8	69.4	70.1	241.8	2.58	6.9	
1665	0:27:45	70.5	69.5	70.1	241.8	2.58	6.9	
1680	0:28:00	70.6	69.5	70.1	241.8	2.58	6.9	
1695	0:28:15	70.7	69.5	70.2	241.8	2.58	6.9	
1710	0:28:30	71.0	69.5	70.1	241.8	2.58	6.9	
1725	0:28:45	71.1	69.4	70.1	241.8	2.58	6.9	
1740	0:29:00	71.6	69.3	71.0	241.8	2.58	6.9	
1755	0:29:15	71.5	69.3	71.6	241.8	2.58	6.9	
1770	0:29:30	71.3	69.4	71.2	241.8	2.58	6.9	
1785	0:29:45	71.2	69.9	70.2	241.8	2.58	6.9	
1800	0:30:00	71.4	70.1	70.1	241.8	2.58	6.9	Analyzer Low Span IN
1815	0:30:15	71.2	70.1	70.3	241.8	2.58	6.9	
1830	0:30:30	71.6	70.2	70.4	241.8	2.58	6.9	
1845	0:30:45	70.6	70.2	70.7	241.8	2.57	6.9	
1860	0:31:00	70.6	70.4	70.9	199.0	2.40	7.0	
1875	0:31:15	70.4	70.4	70.9	26.3	0.10	7.2	
1890	0:31:30	70.5	70.4	71.0	3.3	0.02	0.2	
1905	0:31:45	70.2	70.4	71.0	0.0	0.00	0.2	
1920	0:32:00	70.4	70.5	71.1	0.0	0.00	0.1	
1935	0:32:15	70.1	70.7	71.2	0.0	0.00	0.1	
1950	0:32:30	70.0	70.8	71.2	0.0	0.00	0.1	
1965	0:32:45	70.0	70.9	71.3	0.0	0.00	0.1	
1980	0:33:00	70.3	70.9	71.4	0.0	0.00	0.1	Start Zero Bias IN
1995	0:33:15	70.6	70.9	71.5	0.0	0.00	0.1	
2010	0:33:30	70.7	70.9	71.5	0.0	0.00	0.1	
2025	0:33:45	70.8	70.9	71.5	0.0	0.00	0.1	
2040	0:34:00	70.2	70.9	71.5	0.0	0.00	0.1	
2055	0:34:15	70.2	71.0	71.4	0.0	0.00	0.1	
2070	0:34:30	70.5	71.0	71.5	0.0	0.00	0.1	
2085	0:34:45	70.7	71.1	71.5	0.0	0.00	0.1	
2100	0:35:00	70.5	71.1	71.5	0.0	0.00	0.1	
2115	0:35:15	70.4	71.1	71.6	0.0	0.00	0.1	
2130	0:35:30	70.6	71.1	71.7	0.0	0.00	0.1	
2145	0:35:45	70.9	71.1	71.6	0.0	0.00	0.1	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
2160	0:36:00	71.0	71.1	71.7	0.0	0.00	0.1	
2175	0:36:15	70.7	71.1	71.7	0.0	0.00	0.1	
2190	0:36:30	70.6	71.1	71.8	0.0	0.00	0.1	
2205	0:36:45	70.2	71.0	71.7	0.0	0.00	0.1	
2220	0:37:00	69.9	71.0	71.7	0.0	0.00	0.1	
2235	0:37:15	70.2	71.0	71.7	0.0	0.00	0.1	
2250	0:37:30	69.7	71.0	71.7	0.0	0.00	0.1	
2265	0:37:45	69.9	70.9	71.7	0.0	0.00	0.1	
2280	0:38:00	70.3	71.0	71.6	0.0	0.00	0.1	System Zero IN
2295	0:38:15	70.7	70.9	71.6	0.0	0.00	0.1	
2310	0:38:30	70.2	70.8	71.5	0.0	0.00	0.1	
2325	0:38:45	70.1	70.9	71.6	0.0	0.00	0.1	
2340	0:39:00	70.3	70.9	71.5	0.0	0.00	0.1	
2355	0:39:15	70.3	70.9	71.6	0.0	0.00	0.1	
2370	0:39:30	70.1	70.8	71.6	1.7	0.03	0.1	
2385	0:39:45	70.8	70.9	71.6	256.2	2.67	0.1	
2400	0:40:00	70.5	70.8	71.5	465.7	4.86	0.1	
2415	0:40:15	70.8	70.8	71.5	486.1	4.95	0.1	
2430	0:40:30	71.2	70.7	71.5	490.9	4.97	0.1	
2445	0:40:45	71.5	70.7	71.4	492.5	4.99	0.1	
2460	0:41:00	71.4	70.7	71.4	493.6	4.99	0.1	Start Mid CO/CO2 Bias IN
2475	0:41:15	70.8	70.6	71.3	493.6	4.99	0.1	
2490	0:41:30	70.9	70.6	71.4	494.1	5.00	0.1	
2505	0:41:45	70.8	70.6	71.4	494.1	5.00	0.1	
2520	0:42:00	70.9	70.6	71.3	494.1	5.00	0.1	
2535	0:42:15	70.6	70.5	71.3	494.1	5.00	0.1	
2550	0:42:30	70.8	70.5	71.2	494.1	5.00	0.1	
2565	0:42:45	71.1	70.5	71.3	494.1	5.00	0.1	
2580	0:43:00	70.9	70.4	71.2	494.1	5.00	0.1	
2595	0:43:15	71.1	70.4	71.3	494.6	5.00	0.1	
2610	0:43:30	71.3	70.4	71.3	494.6	5.00	0.1	
2625	0:43:45	71.3	70.3	71.2	494.6	5.00	0.1	
2640	0:44:00	71.4	70.3	71.2	494.1	5.00	0.1	
2655	0:44:15	71.3	70.2	71.1	494.6	5.00	0.1	
2670	0:44:30	71.5	70.1	71.0	494.6	5.00	0.1	
2685	0:44:45	71.2	70.0	71.0	494.6	5.00	0.1	
2700	0:45:00	71.3	70.1	70.9	494.6	5.00	0.1	
2715	0:45:15	71.5	69.9	70.9	494.6	5.00	0.0	
2730	0:45:30	71.9	69.9	70.9	494.6	5.00	0.0	
2745	0:45:45	71.8	69.9	70.8	494.6	5.00	0.0	
2760	0:46:00	71.9	69.8	70.7	494.6	5.00	0.0	System Mid CO/CO2 IN
2775	0:46:15	71.7	69.8	70.6	494.6	5.00	0.0	
2790	0:46:30	71.4	69.8	70.5	494.1	5.00	0.0	
2805	0:46:45	71.0	69.8	70.6	471.5	5.00	0.0	
2820	0:47:00	70.6	69.9	70.6	180.0	1.33	0.1	
2835	0:47:15	70.9	69.8	70.6	229.5	2.54	0.1	
2850	0:47:30	71.1	69.8	70.6	235.4	2.58	0.0	
2865	0:47:45	71.4	69.8	70.6	237.5	2.58	0.0	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	71.4	69.7	70.6	238.1	2.58	0.0	
2895	0:48:15	71.8	69.8	70.6	238.1	2.58	0.0	
2910	0:48:30	70.9	69.7	70.5	238.1	2.58	0.0	
2925	0:48:45	70.3	69.7	70.5	238.1	2.58	0.0	
2940	0:49:00	70.2	69.7	70.5	237.5	2.58	0.0	Start Low CO/CO2 Bias IN
2955	0:49:15	70.4	69.7	70.5	238.1	2.58	0.0	
2970	0:49:30	70.2	69.7	70.4	237.5	2.58	0.0	
2985	0:49:45	70.5	69.7	70.5	237.5	2.58	0.0	
3000	0:50:00	70.3	69.7	70.5	238.1	2.58	0.0	
3015	0:50:15	70.2	69.6	70.3	238.1	2.58	0.0	
3030	0:50:30	70.1	69.6	70.4	238.1	2.58	0.0	
3045	0:50:45	70.1	69.6	70.3	238.1	2.58	0.0	
3060	0:51:00	70.2	69.6	70.3	238.1	2.58	0.0	
3075	0:51:15	70.1	69.6	70.3	238.1	2.57	0.0	
3090	0:51:30	70.3	69.5	70.3	238.1	2.57	0.0	
3105	0:51:45	70.7	69.5	70.3	238.1	2.58	0.0	
3120	0:52:00	70.7	69.6	70.3	238.1	2.58	0.0	
3135	0:52:15	70.5	69.5	70.2	238.1	2.58	0.0	
3150	0:52:30	70.4	69.5	70.3	238.1	2.58	0.0	
3165	0:52:45	70.4	69.5	70.2	238.1	2.57	0.0	
3180	0:53:00	70.4	69.5	70.2	238.1	2.57	0.0	
3195	0:53:15	70.9	69.4	70.2	238.1	2.57	0.0	
3210	0:53:30	71.4	69.4	70.1	238.1	2.57	0.0	
3225	0:53:45	71.7	69.3	70.1	237.5	2.57	0.0	
3240	0:54:00	71.9	69.3	70.0	237.5	2.57	0.0	System Low CO/CO2 IN
3255	0:54:15	72.0	69.2	70.0	237.5	2.57	0.0	
3270	0:54:30	71.6	69.2	70.0	237.5	2.57	0.0	
3285	0:54:45	71.6	69.2	70.0	175.7	2.32	0.0	
3300	0:55:00	71.2	69.1	69.9	22.5	0.14	0.0	
3315	0:55:15	71.2	69.2	69.9	4.9	0.08	0.1	
3330	0:55:30	70.8	69.2	69.9	2.3	0.08	0.0	
3345	0:55:45	71.1	69.1	69.9	1.2	0.08	6.5	
3360	0:56:00	71.7	69.1	69.8	1.2	0.08	13.5	
3375	0:56:15	72.1	69.0	69.8	1.2	0.08	13.9	
3390	0:56:30	72.2	69.0	69.8	1.2	0.08	14.0	
3405	0:56:45	71.8	69.0	69.8	1.2	0.08	14.0	
3420	0:57:00	71.7	69.0	69.7	1.2	0.08	14.1	Start Mid NOx Bias IN
3435	0:57:15	71.7	69.0	69.7	0.7	0.08	14.1	
3450	0:57:30	71.3	68.9	69.7	1.2	0.08	14.1	
3465	0:57:45	70.8	68.9	69.8	1.2	0.08	14.1	
3480	0:58:00	70.9	68.9	69.7	0.7	0.08	14.2	
3495	0:58:15	71.1	68.9	69.7	0.7	0.08	14.2	
3510	0:58:30	70.9	68.9	69.7	1.2	0.08	14.2	
3525	0:58:45	70.2	68.9	69.6	0.7	0.08	14.2	
3540	0:59:00	70.6	68.9	69.7	0.7	0.09	14.2	
3555	0:59:15	70.2	68.9	69.7	0.7	0.09	14.2	
3570	0:59:30	70.1	68.9	69.6	0.7	0.09	14.2	
3585	0:59:45	69.8	69.0	69.7	0.7	0.09	14.2	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	70.0	69.0	69.6	0.7	0.09	14.2	
3615	1:00:15	71.4	68.9	69.7	0.7	0.09	14.2	
3630	1:00:30	70.9	69.0	69.7	0.7	0.09	14.2	
3645	1:00:45	70.9	68.9	69.6	0.7	0.09	14.2	
3660	1:01:00	71.1	68.8	69.6	0.7	0.09	14.2	
3675	1:01:15	71.5	68.8	69.6	0.7	0.09	14.2	
3690	1:01:30	71.8	68.9	69.5	0.7	0.09	14.2	
3705	1:01:45	71.5	68.7	69.5	0.7	0.09	14.2	
3720	1:02:00	71.7	68.7	69.5	0.7	0.09	14.2	System Mid NOx IN
3735	1:02:15	72.0	68.7	69.4	0.7	0.09	14.2	
3750	1:02:30	72.2	68.6	69.4	0.7	0.10	14.2	
3765	1:02:45	71.4	68.6	69.3	0.7	0.10	14.2	
3780	1:03:00	71.7	68.6	69.3	0.7	0.10	14.2	
3795	1:03:15	72.2	68.6	69.3	0.7	0.10	14.2	
3810	1:03:30	71.7	68.6	69.3	0.7	0.10	14.2	
3825	1:03:45	71.5	68.6	69.3	1.2	0.10	14.2	
3840	1:04:00	71.3	68.5	69.2	1.2	0.10	10.4	
3855	1:04:15	71.5	68.6	69.3	0.7	0.10	6.6	
3870	1:04:30	71.4	68.5	69.2	0.7	0.10	0.5	
3885	1:04:45	71.7	68.6	69.3	0.7	0.10	3.4	
3900	1:05:00	71.9	68.5	69.2	0.7	0.10	6.5	Start Low NOx Bias IN
3915	1:05:15	71.3	68.5	69.3	0.7	0.10	6.7	
3930	1:05:30	71.2	68.5	69.3	0.7	0.11	6.7	
3945	1:05:45	71.0	68.5	69.3	0.7	0.11	6.7	
3960	1:06:00	71.2	68.6	69.3	0.7	0.11	6.7	
3975	1:06:15	71.6	68.6	69.3	0.7	0.11	6.7	
3990	1:06:30	71.4	68.6	69.3	0.7	0.11	6.7	
4005	1:06:45	71.3	68.6	69.3	0.7	0.11	6.7	
4020	1:07:00	70.7	68.6	69.3	0.7	0.11	6.7	
4035	1:07:15	69.9	68.5	69.2	0.7	0.11	6.7	
4050	1:07:30	69.7	68.5	69.2	0.7	0.11	6.8	
4065	1:07:45	70.0	68.5	69.3	0.7	0.11	6.8	
4080	1:08:00	70.0	68.5	69.2	0.7	0.11	6.8	
4095	1:08:15	70.0	68.5	69.2	1.2	0.11	6.8	
4110	1:08:30	70.6	68.5	69.2	1.2	0.11	6.8	
4125	1:08:45	70.1	68.5	69.2	1.2	0.11	6.7	
4140	1:09:00	70.1	68.6	69.3	1.2	0.12	6.7	
4155	1:09:15	69.9	68.6	69.3	1.2	0.12	6.8	
4170	1:09:30	69.9	68.6	69.3	0.7	0.12	6.8	
4185	1:09:45	70.4	68.6	69.3	0.7	0.12	6.8	
4200	1:10:00	70.8	68.6	69.3	0.7	0.12	6.8	System Low NOx IN
4215	1:10:15	71.3	68.5	69.2	1.2	0.12	6.8	
4230	1:10:30	70.7	68.5	69.2	1.2	0.12	6.8	
4245	1:10:45	70.6	68.5	69.2	1.2	0.12	6.8	
4260	1:11:00	70.9	68.5	69.1	1.2	0.12	6.7	
4275	1:11:15	73.0	68.3	69.1	1.2	0.12	6.6	
4290	1:11:30	73.5	68.4	69.1	1.2	0.12	4.0	
4305	1:11:45	71.9	68.5	69.2	1.2	0.12	2.5	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
4320	1:12:00	71.3	68.4	69.1	1.2	0.12	1.1	
4335	1:12:15	70.6	68.4	69.1	1.7	0.10	1.3	
4350	1:12:30	70.3	68.4	69.1	4.4	0.12	2.0	
4365	1:12:45	69.4	68.3	69.0	0.1	0.04	1.2	
4380	1:13:00	69.8	68.4	69.1	0.0	0.03	0.2	
4395	1:13:15	70.1	68.4	69.1	0.0	0.03	0.1	
4410	1:13:30	70.5	68.3	69.0	0.0	0.03	0.1	
4425	1:13:45	70.5	68.3	69.0	0.0	0.03	0.1	
4440	1:14:00	70.9	68.3	69.0	0.0	0.03	0.1	
4455	1:14:15	70.6	68.2	69.0	0.0	0.03	0.1	
4470	1:14:30	69.9	68.3	69.0	0.0	0.03	0.1	
4485	1:14:45	70.1	68.2	69.0	0.0	0.03	0.2	
4500	1:15:00	69.7	68.2	69.1	0.0	0.03	0.2	
4515	1:15:15	70.0	68.3	69.1	0.0	0.03	0.1	
4530	1:15:30	70.2	68.2	69.1	0.0	0.03	0.2	
4545	1:15:45	70.1	68.2	69.1	0.0	0.03	0.1	
4560	1:16:00	69.7	68.2	69.1	0.0	0.03	0.1	
4575	1:16:15	69.4	68.2	69.0	0.0	0.03	0.1	
4590	1:16:30	69.7	68.1	69.0	0.0	0.03	0.1	
4605	1:16:45	69.9	68.1	69.8	0.0	0.03	0.1	
4620	1:17:00	69.8	68.1	75.0	41.7	0.24	0.1	
4635	1:17:15	69.7	68.2	70.5	18.8	0.57	0.1	
4650	1:17:30	69.5	68.2	69.4	2.3	0.07	0.2	
4665	1:17:45	69.5	68.2	70.5	0.0	0.04	0.1	
4680	1:18:00	70.7	68.2	99.9	66.3	0.37	0.1	
4695	1:18:15	71.7	68.1	129.2	37.9	7.85	0.1	
4710	1:18:30	71.8	68.2	146.1	56.0	8.63	8.0	
4725	1:18:45	71.8	68.2	151.9	87.4	9.06	12.4	
4740	1:19:00	71.4	68.1	153.3	99.1	9.26	19.9	
4755	1:19:15	70.3	68.1	154.6	106.1	9.33	23.2	
4770	1:19:30	71.0	68.0	155.4	110.3	9.36	25.8	
4785	1:19:45	71.4	68.0	156.3	113.0	9.38	26.4	
4800	1:20:00	71.7	68.0	156.4	113.5	9.38	27.3	
4815	1:20:15	70.6	68.0	157.0	114.0	9.38	27.6	
4830	1:20:30	70.1	68.0	157.6	115.6	9.39	27.7	
4845	1:20:45	70.8	68.0	157.6	116.2	9.39	28.0	
4860	1:21:00	70.3	68.0	158.0	116.7	9.39	28.4	
4875	1:21:15	69.7	68.0	158.3	117.2	9.40	28.5	
4890	1:21:30	69.4	68.0	158.5	117.8	9.40	28.7	
4905	1:21:45	69.9	68.0	158.4	117.8	9.40	28.8	
4920	1:22:00	70.4	68.0	158.6	117.2	9.39	28.8	
4935	1:22:15	71.5	68.0	158.7	116.2	9.38	28.7	
4950	1:22:30	71.0	68.0	158.7	116.7	9.39	28.8	
4965	1:22:45	71.1	67.9	158.8	116.7	9.39	28.9	
4980	1:23:00	70.0	67.9	158.7	116.4	9.39	29.1	
4995	1:23:15	70.4	67.9	158.9	116.2	9.39	29.2	
5010	1:23:30	70.6	67.9	158.9	116.7	9.39	29.1	
5025	1:23:45	71.3	67.9	159.0	117.0	9.39	29.2	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
5040	1:24:00	70.9	67.9	159.2	117.2	9.39	29.4	
5055	1:24:15	71.7	67.9	159.1	116.7	9.39	29.4	
5070	1:24:30	70.6	67.9	159.1	116.7	9.39	29.2	
5085	1:24:45	69.8	68.0	159.3	116.2	9.39	29.4	
5100	1:25:00	69.8	67.9	159.1	115.6	9.38	29.4	
5115	1:25:15	69.9	68.0	159.3	115.6	9.38	29.4	
5130	1:25:30	70.4	68.0	159.2	115.6	9.39	29.3	
5145	1:25:45	70.5	68.1	159.5	115.6	9.39	29.4	
5160	1:26:00	70.4	68.1	159.5	115.6	9.38	29.4	
5175	1:26:15	71.3	68.1	159.6	115.6	9.39	29.5	
5190	1:26:30	71.7	68.1	159.3	115.6	9.39	29.6	
5205	1:26:45	72.0	68.1	158.8	115.6	9.39	29.6	
5220	1:27:00	72.1	68.1	158.4	108.1	9.33	29.2	
5235	1:27:15	72.3	68.0	158.2	101.3	9.26	28.8	
5250	1:27:30	70.8	68.0	158.2	99.7	9.25	26.1	
5265	1:27:45	70.7	67.9	158.0	98.6	9.25	26.1	
5280	1:28:00	70.9	68.0	158.1	98.1	9.24	26.0	
5295	1:28:15	71.7	67.8	157.8	97.3	9.24	25.9	
5310	1:28:30	71.9	67.9	157.7	97.0	9.24	25.7	
5325	1:28:45	71.7	67.9	156.8	90.6	9.18	25.7	
5340	1:29:00	71.8	67.9	156.6	84.5	9.10	24.1	
5355	1:29:15	72.1	67.9	156.7	82.1	9.09	22.6	
5370	1:29:30	72.4	67.8	156.6	81.0	9.08	22.2	
5385	1:29:45	72.1	67.9	156.6	80.5	9.08	22.1	
5400	1:30:00	72.0	67.9	156.5	80.5	9.07	22.0	
5415	1:30:15	72.1	67.8	156.4	80.5	9.07	21.9	
5430	1:30:30	70.5	67.9	156.6	81.0	9.08	21.9	
5445	1:30:45	71.3	67.9	156.4	80.5	9.08	21.9	
5460	1:31:00	71.7	67.9	156.5	81.0	9.07	21.9	
5475	1:31:15	72.1	67.9	156.4	80.5	9.07	21.8	
5490	1:31:30	72.3	67.9	154.7	74.8	9.05	21.6	
5505	1:31:45	71.4	67.9	154.3	61.9	8.82	20.0	
5520	1:32:00	71.2	67.9	154.1	58.4	8.78	17.5	
5535	1:32:15	71.0	67.9	154.0	57.6	8.78	16.5	
5550	1:32:30	70.5	67.9	154.0	57.6	8.78	16.5	
5565	1:32:45	70.2	67.9	153.8	57.6	8.79	16.5	
5580	1:33:00	70.2	68.0	153.9	57.6	8.79	16.4	
5595	1:33:15	71.2	67.9	153.9	57.1	8.78	16.3	
5610	1:33:30	71.6	68.0	154.0	57.1	8.78	16.1	
5625	1:33:45	71.1	67.9	154.0	57.6	8.79	16.1	
5640	1:34:00	70.9	68.0	153.9	57.6	8.79	16.1	
5655	1:34:15	71.1	67.9	154.1	57.4	8.79	16.1	
5670	1:34:30	72.0	67.9	154.0	57.1	8.78	16.0	
5685	1:34:45	72.5	67.9	153.8	57.1	8.78	16.0	
5700	1:35:00	71.3	67.9	153.9	57.1	8.78	15.9	
5715	1:35:15	70.9	67.8	153.7	57.1	8.79	15.9	
5730	1:35:30	70.9	67.8	153.8	57.1	8.78	15.8	
5745	1:35:45	71.3	67.8	153.8	57.1	8.79	15.8	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
5760	1:36:00	72.2	67.8	153.7	57.1	8.79	15.7	
5775	1:36:15	71.8	67.8	153.9	57.1	8.79	15.7	
5790	1:36:30	71.6	67.8	153.9	57.6	8.79	15.6	
5805	1:36:45	71.2	67.7	153.9	58.1	8.80	15.7	
5820	1:37:00	70.8	67.7	153.8	58.1	8.80	15.8	
5835	1:37:15	70.1	67.7	153.8	58.1	8.79	15.8	
5850	1:37:30	70.5	67.7	154.0	58.1	8.79	15.7	
5865	1:37:45	70.1	67.8	153.9	58.1	8.80	15.7	
5880	1:38:00	69.9	67.7	153.9	57.6	8.79	15.7	
5895	1:38:15	70.4	67.8	153.8	58.1	8.80	15.6	
5910	1:38:30	70.6	67.7	153.7	58.1	8.80	15.7	
5925	1:38:45	71.3	67.6	153.7	58.1	8.80	15.7	
5940	1:39:00	71.4	67.5	153.8	58.1	8.81	15.8	
5955	1:39:15	71.3	67.6	153.7	58.1	8.80	15.8	
5970	1:39:30	71.1	67.6	158.6	58.1	8.80	15.8	
5985	1:39:45	72.1	67.6	163.1	58.1	8.80	15.7	
6000	1:40:00	72.4	67.6	164.6	58.1	8.80	15.7	
6015	1:40:15	71.7	67.6	165.6	57.6	8.79	15.7	
6030	1:40:30	70.3	67.7	166.0	57.6	8.80	15.5	
6045	1:40:45	70.5	67.7	166.5	57.6	8.80	15.5	
6060	1:41:00	70.9	67.6	165.9	57.1	8.78	15.5	
6075	1:41:15	70.9	67.6	166.3	57.1	8.78	15.5	
6090	1:41:30	71.8	67.7	166.8	57.1	8.78	15.4	
6105	1:41:45	71.8	67.7	169.7	57.1	8.78	15.4	
6120	1:42:00	72.0	67.7	172.7	57.1	8.78	15.3	
6135	1:42:15	72.4	67.7	174.3	57.1	8.77	15.2	
6150	1:42:30	71.5	67.7	175.6	57.1	8.78	15.2	
6165	1:42:45	71.4	67.8	176.2	57.1	8.78	15.2	
6180	1:43:00	71.5	67.8	176.8	57.1	8.77	15.2	
6195	1:43:15	71.3	67.9	177.1	56.5	8.77	15.2	
6210	1:43:30	70.9	68.0	177.6	57.1	8.78	15.2	
6225	1:43:45	71.3	68.0	177.8	57.1	8.77	15.2	
6240	1:44:00	71.2	67.9	177.7	57.1	8.78	15.3	
6255	1:44:15	71.2	68.0	177.7	57.1	8.78	15.3	
6270	1:44:30	71.0	68.0	177.7	57.1	8.78	15.3	
6285	1:44:45	71.1	67.9	177.7	57.1	8.79	15.3	
6300	1:45:00	70.7	67.9	177.5	56.6	8.77	15.3	
6315	1:45:15	71.1	68.0	177.5	56.0	8.76	15.2	
6330	1:45:30	71.2	68.0	177.3	56.0	8.76	15.0	
6345	1:45:45	71.1	68.0	177.3	55.5	8.76	15.0	
6360	1:46:00	71.2	68.0	177.3	55.5	8.75	15.0	
6375	1:46:15	71.6	67.9	177.3	55.5	8.75	15.0	
6390	1:46:30	71.3	67.9	177.5	56.0	8.76	14.9	
6405	1:46:45	71.4	68.0	177.6	56.6	8.76	15.1	
6420	1:47:00	71.5	67.9	177.5	56.6	8.77	15.2	
6435	1:47:15	71.5	68.0	177.4	57.1	8.77	15.2	
6450	1:47:30	71.6	68.0	177.3	57.1	8.77	15.3	
6465	1:47:45	71.5	68.0	177.6	57.1	8.76	15.2	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
6480	1:48:00	71.4	67.9	177.4	57.1	8.77	15.2	
6495	1:48:15	71.4	68.0	177.3	57.6	8.76	15.2	
6510	1:48:30	71.3	67.9	177.3	57.1	8.76	15.3	
6525	1:48:45	71.4	67.9	177.3	57.1	8.76	15.2	
6540	1:49:00	71.7	67.9	177.1	57.1	8.76	15.2	
6555	1:49:15	71.7	68.0	177.1	57.1	8.76	15.2	
6570	1:49:30	72.0	68.0	177.1	57.1	8.76	15.2	
6585	1:49:45	71.7	68.0	177.1	57.1	8.76	15.2	
6600	1:50:00	71.7	68.0	177.0	56.6	8.76	15.2	
6615	1:50:15	71.7	67.8	177.1	56.6	8.76	15.2	
6630	1:50:30	71.7	67.9	177.0	56.0	8.75	15.0	
6645	1:50:45	71.4	67.9	177.0	56.0	8.74	15.0	
6660	1:51:00	71.7	67.9	176.9	56.0	8.75	14.9	
6675	1:51:15	71.9	67.9	176.9	55.5	8.75	14.9	
6690	1:51:30	72.4	67.9	176.9	55.5	8.74	14.9	
6705	1:51:45	71.8	67.8	176.9	55.0	8.74	14.8	
6720	1:52:00	71.3	67.8	176.8	55.5	8.74	14.8	
6735	1:52:15	71.8	67.8	176.9	55.0	8.74	14.8	
6750	1:52:30	71.6	67.8	177.1	55.0	8.74	14.8	
6765	1:52:45	71.3	67.8	177.1	55.0	8.73	14.7	
6780	1:53:00	71.0	67.9	177.2	54.9	8.74	14.7	
6795	1:53:15	71.2	67.9	176.9	55.0	8.74	14.7	
6810	1:53:30	71.0	67.8	177.0	55.0	8.74	14.8	
6825	1:53:45	71.4	67.9	177.0	55.0	8.74	14.8	
6840	1:54:00	71.4	67.9	177.1	55.0	8.74	14.7	
6855	1:54:15	72.2	67.9	177.3	55.0	8.74	14.7	
6870	1:54:30	72.7	67.9	177.1	54.4	8.74	14.6	
6885	1:54:45	73.1	68.0	177.3	54.4	8.73	14.6	
6900	1:55:00	71.6	67.8	177.0	55.0	8.74	14.6	
6915	1:55:15	71.0	67.9	177.2	55.0	8.74	14.7	
6930	1:55:30	71.4	67.9	177.1	55.5	8.75	14.7	
6945	1:55:45	72.2	67.9	177.1	54.9	8.74	14.7	
6960	1:56:00	71.2	67.8	177.1	55.0	8.74	14.8	
6975	1:56:15	70.8	67.8	177.0	55.0	8.74	14.7	
6990	1:56:30	71.8	67.9	177.1	55.0	8.75	14.7	
7005	1:56:45	71.9	67.8	177.0	55.0	8.74	14.7	
7020	1:57:00	71.1	67.8	177.1	55.5	8.75	14.7	
7035	1:57:15	71.7	67.8	177.1	55.5	8.75	14.8	
7050	1:57:30	72.5	67.8	177.1	55.5	8.75	14.9	
7065	1:57:45	72.6	67.8	177.2	55.5	8.75	14.9	
7080	1:58:00	72.7	67.8	177.1	55.5	8.75	14.9	
7095	1:58:15	71.2	67.8	176.9	55.5	8.75	14.9	
7110	1:58:30	71.0	67.7	176.8	55.5	8.76	14.9	
7125	1:58:45	70.7	67.8	176.8	54.9	8.75	14.9	
7140	1:59:00	72.0	67.8	177.0	54.9	8.75	14.9	
7155	1:59:15	72.1	67.8	176.8	55.5	8.75	14.8	
7170	1:59:30	72.2	67.8	176.8	55.0	8.74	14.8	
7185	1:59:45	72.3	67.9	176.8	54.9	8.75	14.8	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
7200	2:00:00	72.2	67.8	176.8	54.4	8.74	14.7	
7215	2:00:15	72.9	67.9	176.7	54.4	8.74	14.6	
7230	2:00:30	73.2	67.9	176.7	54.4	8.74	14.7	
7245	2:00:45	72.7	67.8	179.8	54.4	8.73	14.7	
7260	2:01:00	72.7	67.8	182.5	54.4	8.74	14.6	
7275	2:01:15	72.3	67.9	183.1	54.4	8.74	14.7	
7290	2:01:30	71.6	67.9	175.6	54.4	8.74	14.7	
7305	2:01:45	71.7	67.9	167.3	54.9	8.74	14.7	
7320	2:02:00	71.5	67.9	164.9	55.0	8.75	14.7	
7335	2:02:15	71.9	68.0	168.3	55.5	8.75	14.8	
7350	2:02:30	72.3	67.9	171.0	55.5	8.74	14.8	
7365	2:02:45	71.8	67.9	171.8	55.0	8.75	14.8	
7380	2:03:00	71.6	68.0	172.0	54.9	8.75	14.7	
7395	2:03:15	71.4	68.1	172.0	54.9	8.74	14.7	
7410	2:03:30	71.0	68.1	171.6	55.0	8.75	14.7	
7425	2:03:45	72.3	68.3	171.3	55.5	8.75	14.7	
7440	2:04:00	72.8	68.3	170.9	55.0	8.75	14.7	
7455	2:04:15	73.4	68.4	170.5	54.9	8.75	14.7	
7470	2:04:30	72.7	68.5	170.2	54.9	8.75	14.7	
7485	2:04:45	71.9	68.5	169.8	55.0	8.75	14.7	
7500	2:05:00	71.7	68.6	169.2	54.9	8.75	14.7	
7515	2:05:15	71.1	68.7	169.3	54.4	8.74	14.7	
7530	2:05:30	71.4	68.7	169.0	55.0	8.74	14.6	
7545	2:05:45	71.8	68.9	168.9	55.0	8.74	14.6	
7560	2:06:00	71.6	68.9	171.3	54.4	8.74	14.6	
7575	2:06:15	72.3	69.0	172.5	54.4	8.74	14.6	
7590	2:06:30	70.7	69.1	172.0	54.4	8.74	14.6	
7605	2:06:45	70.5	69.2	171.6	54.4	8.74	14.6	
7620	2:07:00	71.8	69.3	171.1	54.4	8.74	14.6	
7635	2:07:15	72.2	69.3	170.5	54.4	8.74	14.6	
7650	2:07:30	72.2	69.4	171.4	54.9	8.74	14.6	
7665	2:07:45	71.0	69.5	172.7	54.4	8.75	14.6	
7680	2:08:00	70.8	69.6	172.6	54.5	8.74	14.7	
7695	2:08:15	70.2	69.7	172.5	55.0	8.74	14.6	
7710	2:08:30	70.4	69.8	172.7	55.0	8.75	14.6	
7725	2:08:45	70.2	70.0	172.7	54.9	8.74	14.5	
7740	2:09:00	70.5	70.2	172.8	54.9	8.74	14.5	
7755	2:09:15	71.2	70.3	172.8	54.4	8.74	14.5	
7770	2:09:30	70.7	70.4	174.2	54.4	8.74	14.5	
7785	2:09:45	71.5	70.4	174.5	54.4	8.74	14.3	
7800	2:10:00	71.2	70.5	174.3	54.4	8.74	14.2	
7815	2:10:15	71.8	70.4	174.2	54.4	8.74	14.2	
7830	2:10:30	71.8	70.4	174.0	54.4	8.74	14.3	
7845	2:10:45	72.5	70.5	174.1	53.9	8.73	14.3	
7860	2:11:00	73.2	70.5	174.4	53.9	8.73	14.3	
7875	2:11:15	72.5	70.6	174.3	53.9	8.73	14.2	
7890	2:11:30	72.1	70.6	174.0	53.9	8.73	14.4	
7905	2:11:45	71.5	70.7	173.9	53.9	8.73	14.4	

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
7920	2:12:00	71.5	70.8	174.5	53.9	8.73	14.5	
7935	2:12:15	71.7	70.8	174.6	53.9	8.73	14.4	
7950	2:12:30	72.6	70.9	174.7	53.9	8.73	14.4	
7965	2:12:45	72.1	71.0	174.7	53.9	8.73	14.4	
7980	2:13:00	71.6	70.9	174.9	54.4	8.73	14.3	
7995	2:13:15	72.0	70.9	175.0	54.4	8.74	14.2	
8010	2:13:30	71.7	70.8	175.0	54.4	8.73	14.3	
8025	2:13:45	72.5	70.9	175.3	54.4	8.73	14.3	
8040	2:14:00	73.1	70.8	175.0	54.4	8.73	14.3	
8055	2:14:15	72.6	70.8	175.2	53.9	8.73	14.3	
8070	2:14:30	72.5	70.8	175.0	53.9	8.73	14.4	
8085	2:14:45	72.1	70.8	175.3	53.9	8.73	14.5	
8100	2:15:00	71.5	70.9	175.4	53.9	8.73	14.5	
8115	2:15:15	71.1	70.8	175.3	54.4	8.74	14.5	
8130	2:15:30	71.5	70.8	175.2	53.9	8.73	14.5	
8145	2:15:45	71.6	70.8	175.8	53.9	8.73	14.5	
8160	2:16:00	72.7	70.8	176.4	53.8	8.73	14.5	
8175	2:16:15	73.3	70.9	176.3	53.4	8.72	14.4	
8190	2:16:30	73.4	70.8	175.9	53.3	8.72	14.2	
8205	2:16:45	72.4	70.7	175.7	53.4	8.73	14.1	
8220	2:17:00	72.2	70.8	175.4	53.9	8.73	14.2	
8235	2:17:15	71.8	70.7	175.2	53.4	8.73	14.3	
8250	2:17:30	72.6	70.7	175.3	53.4	8.72	14.2	
8265	2:17:45	72.3	70.7	175.4	53.4	8.72	14.2	
8280	2:18:00	71.6	70.7	175.2	53.4	8.73	14.2	
8295	2:18:15	71.8	70.7	175.0	53.9	8.73	14.2	
8310	2:18:30	71.8	70.7	175.1	53.4	8.72	14.2	
8325	2:18:45	71.8	70.8	175.4	53.4	8.72	14.2	
8340	2:19:00	72.8	70.8	175.3	53.4	8.73	14.2	
8355	2:19:15	73.3	70.9	175.3	53.4	8.72	14.2	
8370	2:19:30	73.7	70.8	175.4	53.4	8.72	14.2	
8385	2:19:45	73.3	70.7	175.5	53.9	8.73	14.3	
8400	2:20:00	72.7	70.7	175.5	53.9	8.73	14.4	
8415	2:20:15	72.7	70.8	175.3	53.9	8.73	14.5	
8430	2:20:30	73.2	70.8	175.4	53.9	8.72	14.6	
8445	2:20:45	73.2	70.7	175.5	53.4	8.71	14.5	
8460	2:21:00	73.7	70.8	175.5	53.4	8.71	14.3	
8475	2:21:15	73.9	70.8	175.5	53.9	8.72	14.3	
8490	2:21:30	73.7	70.8	175.6	53.4	8.72	14.2	
8505	2:21:45	72.3	70.7	175.5	53.4	8.72	14.2	
8520	2:22:00	72.7	70.7	175.4	53.4	8.72	14.2	
8535	2:22:15	73.4	70.7	175.4	53.4	8.72	14.2	
8550	2:22:30	73.3	70.7	175.5	53.3	8.71	14.2	
8565	2:22:45	72.7	70.8	175.2	53.4	8.71	14.2	
8580	2:23:00	72.8	70.7	175.3	53.4	8.72	14.1	
8595	2:23:15	71.7	70.8	175.4	53.3	8.72	14.2	
8610	2:23:30	71.7	70.8	175.3	53.4	8.71	14.2	
8625	2:23:45	71.7	70.9	175.3	53.4	8.71	14.2	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
8640	2:24:00	71.5	70.9	175.3	53.3	8.72	14.2	
8655	2:24:15	71.7	70.9	175.3	53.3	8.72	14.2	
8670	2:24:30	72.0	70.9	175.5	53.4	8.72	14.2	
8685	2:24:45	71.8	70.9	176.0	52.8	8.72	14.3	
8700	2:25:00	71.9	70.9	176.1	53.3	8.72	14.2	
8715	2:25:15	72.0	70.9	176.2	53.3	8.72	14.2	
8730	2:25:30	71.6	70.8	176.3	53.4	8.72	14.3	
8745	2:25:45	71.8	70.8	176.4	53.9	8.73	14.4	
8760	2:26:00	71.9	70.7	176.5	54.4	8.73	14.6	
8775	2:26:15	71.9	70.6	176.4	54.4	8.74	14.7	
8790	2:26:30	71.7	70.5	176.3	54.4	8.74	14.8	
8805	2:26:45	71.7	70.6	176.4	54.4	8.73	14.7	
8820	2:27:00	71.5	70.4	176.2	53.9	8.73	14.7	
8835	2:27:15	71.9	70.4	176.1	53.9	8.72	14.7	
8850	2:27:30	72.3	70.5	176.4	53.3	8.72	14.5	
8865	2:27:45	72.7	70.5	176.5	53.9	8.72	14.4	
8880	2:28:00	72.1	70.5	176.5	53.9	8.73	14.4	
8895	2:28:15	72.0	70.5	176.6	53.9	8.73	14.5	
8910	2:28:30	71.8	70.5	176.6	54.4	8.74	14.5	
8925	2:28:45	72.1	70.4	176.5	54.4	8.74	14.5	
8940	2:29:00	72.5	70.4	176.5	54.4	8.74	14.5	
8955	2:29:15	72.4	70.4	176.6	53.9	8.73	14.5	
8970	2:29:30	72.4	70.4	176.4	53.9	8.72	14.5	
8985	2:29:45	72.5	70.3	176.4	53.4	8.72	14.6	
9000	2:30:00	72.4	70.3	176.6	53.4	8.71	14.7	
9015	2:30:15	72.2	70.3	176.8	53.4	8.72	14.6	
9030	2:30:30	72.1	70.3	177.0	53.9	8.73	14.6	
9045	2:30:45	72.2	70.4	176.9	53.9	8.73	14.6	
9060	2:31:00	72.1	70.4	176.9	53.4	8.73	14.5	
9075	2:31:15	72.2	70.4	177.0	53.4	8.73	14.4	
9090	2:31:30	72.3	70.4	177.3	52.8	8.72	14.3	
9105	2:31:45	72.4	70.3	177.3	52.8	8.72	14.2	
9120	2:32:00	73.2	70.3	177.2	52.8	8.72	14.2	
9135	2:32:15	73.1	70.3	177.4	52.8	8.71	14.2	
9150	2:32:30	73.1	70.3	177.1	52.8	8.72	14.1	
9165	2:32:45	73.3	70.3	177.2	52.3	8.71	14.1	
9180	2:33:00	72.9	70.2	177.2	52.8	8.72	14.1	
9195	2:33:15	72.2	70.3	177.3	53.3	8.72	14.1	
9210	2:33:30	72.2	70.2	177.2	53.3	8.73	14.2	
9225	2:33:45	73.1	70.3	177.3	52.8	8.72	14.2	
9240	2:34:00	73.5	70.3	177.4	52.8	8.71	14.2	
9255	2:34:15	73.3	70.2	177.5	52.8	8.72	14.1	
9270	2:34:30	72.3	70.3	177.9	52.8	8.71	14.2	
9285	2:34:45	71.9	70.3	177.9	52.8	8.71	14.1	
9300	2:35:00	72.1	70.4	177.9	53.4	8.72	14.2	
9315	2:35:15	72.1	70.4	178.2	52.8	8.72	14.3	
9330	2:35:30	72.1	70.4	178.3	52.8	8.71	14.2	
9345	2:35:45	72.2	70.4	178.3	53.4	8.72	14.3	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
9360	2:36:00	72.0	70.3	178.3	53.4	8.73	14.4	Start High Fire Equilibrium - #1
9375	2:36:15	72.4	70.3	178.2	53.9	8.72	14.4	
9390	2:36:30	72.4	70.3	178.1	53.9	8.73	14.3	
9405	2:36:45	72.4	70.4	178.3	54.4	8.73	14.4	
9420	2:37:00	72.6	70.3	178.5	54.9	8.74	14.5	
9435	2:37:15	72.5	70.3	178.7	54.9	8.75	14.6	
9450	2:37:30	72.0	70.3	178.7	55.5	8.75	14.7	
9465	2:37:45	72.0	70.3	178.8	55.5	8.75	14.8	
9480	2:38:00	72.1	70.2	178.6	54.9	8.75	14.8	
9495	2:38:15	72.3	70.3	178.9	54.9	8.75	14.7	
9510	2:38:30	72.3	70.2	178.9	55.5	8.76	14.8	
9525	2:38:45	72.2	70.2	178.8	54.9	8.75	14.8	
9540	2:39:00	72.4	70.2	178.6	54.9	8.76	14.9	
9555	2:39:15	72.3	70.1	178.6	54.9	8.74	14.9	
9570	2:39:30	72.3	70.2	178.8	54.4	8.74	14.7	
9585	2:39:45	72.2	70.2	179.0	55.0	8.75	14.7	
9600	2:40:00	72.2	70.2	178.6	54.9	8.75	14.7	
9615	2:40:15	72.3	70.3	178.8	55.0	8.74	14.7	
9630	2:40:30	72.2	70.2	178.6	54.9	8.75	14.7	
9645	2:40:45	72.3	70.2	178.9	54.4	8.74	14.7	
9660	2:41:00	72.0	70.2	178.9	54.4	8.74	14.7	End High Fire Equilibrium - #1
9675	2:41:15	72.2	70.2	178.9	54.4	8.75	14.7	
9690	2:41:30	72.5	70.1	178.9	54.4	8.74	14.8	
9705	2:41:45	72.3	70.2	179.1	54.4	8.74	14.8	Start Test - High Fire - #1
9720	2:42:00	72.2	70.2	178.8	54.4	8.74	14.7	
9735	2:42:15	72.8	70.2	178.7	54.4	8.74	14.7	
9750	2:42:30	72.8	70.1	178.6	54.4	8.74	14.6	
9765	2:42:45	72.4	70.2	178.6	54.4	8.74	14.6	
9780	2:43:00	72.5	70.1	178.6	54.4	8.74	14.7	
9795	2:43:15	72.5	70.2	178.6	54.4	8.74	14.7	
9810	2:43:30	72.7	70.2	178.8	54.9	8.75	14.7	
9825	2:43:45	72.5	70.2	178.6	54.9	8.74	14.7	
9840	2:44:00	72.6	70.3	178.7	54.4	8.74	14.7	
9855	2:44:15	72.4	70.3	178.6	54.4	8.74	14.6	
9870	2:44:30	72.5	70.4	178.7	53.9	8.74	14.6	
9885	2:44:45	72.6	70.3	178.9	54.4	8.74	14.6	
9900	2:45:00	72.3	70.2	178.7	54.4	8.74	14.6	
9915	2:45:15	72.2	70.2	178.6	54.4	8.75	14.6	
9930	2:45:30	73.1	70.1	178.8	54.4	8.75	14.6	
9945	2:45:45	72.7	70.2	178.9	54.4	8.74	14.6	
9960	2:46:00	72.6	70.2	178.9	53.9	8.75	14.6	
9975	2:46:15	72.6	70.3	178.9	53.9	8.74	14.6	
9990	2:46:30	72.6	70.3	178.8	53.9	8.74	14.6	
10005	2:46:45	72.3	70.2	178.8	53.9	8.75	14.5	
10020	2:47:00	72.1	70.1	178.6	53.9	8.74	14.5	
10035	2:47:15	72.4	70.2	178.8	53.9	8.75	14.4	
10050	2:47:30	72.1	70.2	178.8	53.9	8.75	14.7	
10065	2:47:45	72.2	70.2	178.8	53.9	8.74	14.6	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10080	2:48:00	72.2	70.3	178.7	53.9	8.74	14.5	
10095	2:48:15	72.7	70.2	178.6	53.3	8.73	14.5	
10110	2:48:30	73.2	70.2	179.0	52.8	8.72	14.3	
10125	2:48:45	72.5	70.2	179.1	53.3	8.72	14.3	
10140	2:49:00	72.2	70.2	178.9	52.8	8.72	14.3	
10155	2:49:15	72.1	70.2	179.1	52.8	8.72	14.3	
10170	2:49:30	71.8	70.2	179.3	52.8	8.72	14.2	
10185	2:49:45	71.6	70.3	179.2	52.8	8.72	14.3	
10200	2:50:00	71.5	70.3	179.4	52.8	8.71	14.2	
10215	2:50:15	71.9	70.4	179.5	52.8	8.72	14.2	
10230	2:50:30	72.1	70.4	179.4	52.8	8.71	14.3	
10245	2:50:45	71.9	70.4	179.7	52.8	8.71	14.3	
10260	2:51:00	72.0	70.4	179.7	52.8	8.72	14.2	
10275	2:51:15	72.7	70.5	179.4	52.8	8.72	14.2	
10290	2:51:30	73.1	70.4	179.5	52.8	8.72	14.2	
10305	2:51:45	73.0	70.4	179.4	52.8	8.72	14.2	
10320	2:52:00	72.6	70.4	179.3	53.4	8.72	14.3	
10335	2:52:15	72.4	70.3	179.2	53.3	8.72	14.4	
10350	2:52:30	72.8	70.3	179.1	52.8	8.72	14.3	
10365	2:52:45	72.7	70.3	179.2	52.8	8.72	14.3	
10380	2:53:00	72.2	70.3	179.2	52.8	8.72	14.3	
10395	2:53:15	72.4	70.3	179.1	52.8	8.73	14.2	
10410	2:53:30	72.5	70.2	179.1	52.8	8.72	14.3	
10425	2:53:45	72.2	70.3	179.0	52.8	8.72	14.3	
10440	2:54:00	72.1	70.3	179.1	52.8	8.72	14.3	
10455	2:54:15	72.0	70.3	179.1	52.8	8.72	14.3	
10470	2:54:30	72.3	70.3	179.2	52.8	8.72	14.3	
10485	2:54:45	71.6	70.3	178.9	52.8	8.72	14.3	
10500	2:55:00	72.5	70.3	179.1	52.8	8.72	14.2	
10515	2:55:15	73.9	70.3	179.3	52.8	8.73	14.2	
10530	2:55:30	74.3	70.3	179.2	52.3	8.73	14.3	
10545	2:55:45	74.5	70.3	179.3	52.3	8.72	14.2	
10560	2:56:00	73.6	70.3	179.3	52.3	8.72	14.1	
10575	2:56:15	73.5	70.3	179.3	52.3	8.71	14.1	
10590	2:56:30	74.1	70.3	179.3	52.3	8.72	14.2	
10605	2:56:45	74.5	70.3	179.3	52.3	8.71	14.2	
10620	2:57:00	74.6	70.2	179.4	52.3	8.71	14.2	
10635	2:57:15	73.4	70.3	179.4	52.3	8.71	14.2	
10650	2:57:30	72.7	70.4	179.5	52.3	8.71	14.1	
10665	2:57:45	73.0	70.3	179.5	52.3	8.72	14.1	
10680	2:58:00	73.2	70.2	179.3	52.3	8.72	14.1	
10695	2:58:15	73.4	70.2	179.3	52.3	8.72	14.1	
10710	2:58:30	72.9	70.3	179.6	52.3	8.72	14.2	
10725	2:58:45	72.5	70.3	179.3	52.3	8.72	14.2	
10740	2:59:00	72.8	70.3	179.5	52.3	8.71	14.2	
10755	2:59:15	72.8	70.3	179.5	52.3	8.72	14.2	
10770	2:59:30	73.2	70.2	179.5	52.3	8.72	14.3	
10785	2:59:45	73.4	70.2	179.5	52.3	8.72	14.3	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10800	3:00:00	73.0	70.1	179.4	53.3	8.73	14.3	
10815	3:00:15	73.2	70.1	179.5	53.3	8.74	14.3	
10830	3:00:30	73.1	70.2	179.5	53.3	8.74	14.5	
10845	3:00:45	72.9	70.2	179.4	53.9	8.74	14.5	
10860	3:01:00	73.0	70.2	179.2	53.9	8.74	14.5	
10875	3:01:15	72.8	70.2	179.2	53.9	8.74	14.5	
10890	3:01:30	72.8	70.2	179.3	53.3	8.74	14.5	
10905	3:01:45	72.5	70.2	179.2	53.9	8.74	14.5	
10920	3:02:00	72.4	70.3	179.7	53.3	8.74	14.6	
10935	3:02:15	72.9	70.2	179.9	52.8	8.72	14.6	
10950	3:02:30	73.1	70.2	179.7	52.8	8.73	14.4	
10965	3:02:45	72.9	70.2	179.6	52.8	8.73	14.4	
10980	3:03:00	72.7	70.1	179.6	52.8	8.74	14.5	
10995	3:03:15	72.7	70.2	179.6	53.3	8.73	14.5	
11010	3:03:30	73.4	70.1	179.5	53.3	8.74	14.4	
11025	3:03:45	73.8	70.1	179.3	53.3	8.73	14.4	
11040	3:04:00	73.7	70.1	179.3	53.3	8.73	14.4	
11055	3:04:15	73.3	70.2	179.2	52.8	8.73	14.4	
11070	3:04:30	73.1	70.2	179.2	53.3	8.73	14.3	
11085	3:04:45	73.3	70.2	179.3	53.9	8.74	14.4	
11100	3:05:00	73.5	70.2	179.2	53.3	8.74	14.4	
11115	3:05:15	73.3	70.2	179.2	53.3	8.73	14.5	
11130	3:05:30	73.1	70.3	179.2	53.3	8.73	14.4	
11145	3:05:45	73.5	70.3	179.5	53.3	8.73	14.4	
11160	3:06:00	72.7	70.3	179.4	53.3	8.73	14.4	
11175	3:06:15	72.6	70.2	179.2	53.3	8.74	14.4	
11190	3:06:30	72.8	70.3	179.3	53.3	8.74	14.6	
11205	3:06:45	72.9	70.3	179.3	53.3	8.74	14.6	
11220	3:07:00	72.6	70.3	179.4	53.3	8.73	14.4	
11235	3:07:15	72.5	70.3	179.4	53.3	8.74	14.3	
11250	3:07:30	72.4	70.3	179.4	53.4	8.74	14.4	
11265	3:07:45	72.7	70.3	179.3	53.3	8.74	14.4	
11280	3:08:00	73.1	70.4	179.4	53.3	8.73	14.4	
11295	3:08:15	73.0	70.3	179.4	52.8	8.73	14.4	
11310	3:08:30	73.1	70.2	179.3	52.8	8.73	14.4	
11325	3:08:45	73.0	70.3	179.5	53.3	8.73	14.5	
11340	3:09:00	72.7	70.3	179.4	53.9	8.75	14.7	Start Emissions
11355	3:09:15	72.7	70.2	179.3	53.9	8.75	14.9	
11370	3:09:30	73.1	70.3	179.5	53.9	8.74	14.9	
11385	3:09:45	73.5	70.3	179.2	53.3	8.73	14.8	
11400	3:10:00	73.1	70.3	179.4	52.8	8.73	14.6	1st Minute
11415	3:10:15	73.2	70.3	179.4	52.8	8.73	14.4	
11430	3:10:30	73.4	70.3	179.5	52.8	8.72	14.4	
11445	3:10:45	73.6	70.3	179.4	53.3	8.74	14.4	
11460	3:11:00	73.3	70.3	179.4	53.3	8.74	14.5	2nd Minute
11475	3:11:15	72.8	70.3	179.4	52.8	8.73	14.6	
11490	3:11:30	72.8	70.4	179.4	52.8	8.73	14.4	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
11505	3:11:45	72.9	70.4	179.4	53.3	8.73	14.4	
11520	3:12:00	73.1	70.3	179.4	53.3	8.73	14.4	3rd Minute / EOT - High Fire - #1
11535	3:12:15	73.3	70.3	179.5	53.3	8.74	14.5	
11550	3:12:30	73.4	70.3	179.3	52.8	8.74	14.6	CO2 (Avg) % =
11565	3:12:45	73.8	70.2	179.4	52.3	8.73	14.5	8.73
11580	3:13:00	73.2	70.3	179.3	52.8	8.73	14.4	NOx (Avg) ppm =
11595	3:13:15	73.1	70.4	179.6	52.8	8.73	14.4	14.6
11610	3:13:30	74.1	70.3	179.5	52.8	8.74	14.5	CO (Max) ppm =
11625	3:13:45	74.5	70.4	179.5	52.8	8.73	14.4	54.9
11640	3:14:00	74.9	70.3	179.7	52.8	8.73	14.4	Ambient (Avg) F =
11655	3:14:15	75.0	70.3	179.7	52.8	8.73	14.4	72.8
11670	3:14:30	74.0	70.3	179.8	52.8	8.73	14.3	T_In (Avg) F =
11685	3:14:45	74.2	70.3	179.7	52.8	8.73	14.3	70.3
11700	3:15:00	73.9	70.4	179.7	52.8	8.74	14.4	T_Del (Avg) F =
11715	3:15:15	74.2	70.4	179.7	52.8	8.74	14.4	179.2
11730	3:15:30	74.4	70.3	179.5	53.3	8.74	14.5	
11745	3:15:45	73.8	70.4	179.5	52.8	8.73	14.4	
11760	3:16:00	74.3	70.4	179.5	52.8	8.73	14.4	
11775	3:16:15	74.5	70.3	179.6	52.8	8.74	14.3	
11790	3:16:30	74.0	70.3	179.6	52.8	8.73	14.4	
11805	3:16:45	73.3	70.3	179.6	52.8	8.74	14.4	
11820	3:17:00	73.4	70.3	179.6	52.8	8.73	14.3	
11835	3:17:15	73.1	70.3	179.7	52.3	8.73	14.3	
11850	3:17:30	72.6	70.4	179.5	52.8	8.73	14.2	
11865	3:17:45	72.6	70.3	179.6	52.8	8.73	14.3	
11880	3:18:00	72.4	70.3	179.7	52.8	8.74	14.4	
11895	3:18:15	72.7	70.4	179.6	53.3	8.74	14.5	
11910	3:18:30	73.0	70.3	179.6	53.3	8.74	14.5	
11925	3:18:45	73.2	70.4	179.6	52.8	8.74	14.5	
11940	3:19:00	73.1	70.4	179.8	53.3	8.74	14.5	
11955	3:19:15	73.2	70.4	180.0	53.9	8.75	14.5	
11970	3:19:30	73.4	70.4	176.9	53.9	8.76	14.7	
11985	3:19:45	73.4	70.4	154.9	38.5	8.69	14.6	
12000	3:20:00	74.1	70.4	144.6	17.1	8.00	11.4	
12015	3:20:15	73.4	70.3	139.7	13.4	7.89	8.1	
12030	3:20:30	73.2	70.3	136.6	14.5	7.85	7.5	
12045	3:20:45	73.4	70.3	134.3	18.7	7.82	7.4	
12060	3:21:00	73.6	70.3	132.8	22.5	7.77	7.2	
12075	3:21:15	73.3	70.3	131.1	24.6	7.77	7.0	
12090	3:21:30	73.6	70.3	130.5	22.5	7.73	6.7	
12105	3:21:45	73.5	70.2	130.3	19.8	7.72	6.6	
12120	3:22:00	73.4	70.2	129.9	17.2	7.73	6.5	
12135	3:22:15	73.4	70.1	129.5	15.0	7.72	6.5	
12150	3:22:30	73.4	70.1	128.9	13.4	7.70	6.3	
12165	3:22:45	73.6	70.1	128.5	11.8	7.69	6.2	
12180	3:23:00	73.5	70.0	128.0	11.8	7.68	6.1	
12195	3:23:15	73.4	70.0	127.5	14.5	7.65	6.0	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
12210	3:23:30	73.2	70.1	126.9	17.1	7.63	5.8	
12225	3:23:45	73.5	70.1	126.8	17.1	7.62	5.7	
12240	3:24:00	73.2	70.0	126.7	17.1	7.61	5.6	
12255	3:24:15	73.1	70.0	127.4	16.1	7.61	5.6	
12270	3:24:30	72.8	70.0	133.1	15.0	7.65	5.5	
12285	3:24:45	73.6	70.0	142.0	13.4	7.75	5.7	
12300	3:25:00	73.3	70.1	147.7	12.9	7.76	6.0	
12315	3:25:15	73.7	70.1	150.6	12.4	7.77	6.1	
12330	3:25:30	74.4	70.0	152.2	11.8	7.79	6.1	
12345	3:25:45	74.0	70.1	152.8	11.3	7.78	6.1	
12360	3:26:00	73.4	70.2	153.0	11.3	7.77	6.1	
12375	3:26:15	73.6	70.3	153.2	10.8	7.77	6.1	
12390	3:26:30	73.6	70.4	153.0	10.8	7.77	5.9	
12405	3:26:45	73.6	70.5	153.0	10.8	7.78	5.9	
12420	3:27:00	73.8	70.6	153.5	10.8	7.77	5.8	
12435	3:27:15	73.4	70.6	155.2	11.3	7.82	5.8	
12450	3:27:30	73.9	70.6	156.4	11.8	7.88	6.2	
12465	3:27:45	73.9	70.6	157.2	12.4	7.90	6.2	
12480	3:28:00	74.0	70.6	157.7	12.4	7.91	6.3	
12495	3:28:15	73.9	70.6	158.1	12.4	7.91	6.4	
12510	3:28:30	74.0	70.6	158.3	12.4	7.91	6.4	
12525	3:28:45	74.4	70.6	158.5	12.4	7.92	6.4	
12540	3:29:00	74.9	70.6	158.5	11.8	7.93	6.4	
12555	3:29:15	75.4	70.6	158.6	11.8	7.92	6.4	
12570	3:29:30	74.9	70.6	158.6	11.8	7.92	6.3	
12585	3:29:45	73.6	70.6	158.8	11.8	7.92	6.3	
12600	3:30:00	73.5	70.7	158.8	11.8	7.92	6.4	
12615	3:30:15	72.9	70.6	159.1	11.8	7.92	6.4	
12630	3:30:30	72.5	70.6	159.0	12.4	7.93	6.4	
12645	3:30:45	73.9	70.6	158.9	11.8	7.92	6.4	
12660	3:31:00	73.9	70.5	158.7	12.4	7.92	6.4	
12675	3:31:15	74.5	70.6	158.8	12.4	7.91	6.4	
12690	3:31:30	74.6	70.5	158.8	12.4	7.92	6.3	
12705	3:31:45	74.2	70.5	159.2	12.4	7.92	6.3	
12720	3:32:00	73.6	70.4	159.6	12.4	7.90	6.3	
12735	3:32:15	73.4	70.5	159.5	12.4	7.92	6.3	
12750	3:32:30	74.1	70.5	159.9	12.4	7.91	6.3	
12765	3:32:45	74.2	70.4	160.6	12.4	7.92	6.3	
12780	3:33:00	74.8	70.4	160.8	12.4	7.91	6.3	
12795	3:33:15	74.2	70.3	161.1	12.4	7.90	6.3	
12810	3:33:30	73.5	70.3	161.1	12.4	7.91	6.2	
12825	3:33:45	73.1	70.3	161.2	12.4	7.90	6.3	
12840	3:34:00	73.6	70.5	161.3	12.4	7.91	6.3	
12855	3:34:15	73.4	70.4	161.3	11.8	7.92	6.3	
12870	3:34:30	73.3	70.4	161.2	11.8	7.91	6.4	
12885	3:34:45	73.6	70.4	161.2	11.8	7.90	6.3	
12900	3:35:00	73.3	70.5	161.3	11.8	7.90	6.4	
12915	3:35:15	74.3	70.4	161.5	11.8	7.91	6.4	

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
12930	3:35:30	74.6	70.5	161.4	11.8	7.91	6.3	
12945	3:35:45	74.7	70.5	161.2	11.8	7.90	6.3	
12960	3:36:00	73.1	70.5	161.4	12.4	7.90	6.3	
12975	3:36:15	73.4	70.5	161.5	12.4	7.92	6.3	
12990	3:36:30	72.8	70.5	161.4	12.4	7.92	6.4	
13005	3:36:45	73.1	70.6	161.3	12.4	7.90	6.3	
13020	3:37:00	73.0	70.6	161.1	11.8	7.89	6.3	
13035	3:37:15	73.3	70.7	161.3	11.8	7.90	6.3	
13050	3:37:30	73.2	70.6	161.3	11.8	7.90	6.4	
13065	3:37:45	73.0	70.7	163.7	11.8	7.90	6.3	
13080	3:38:00	72.7	70.7	165.9	11.8	7.90	6.3	
13095	3:38:15	73.1	70.7	166.6	11.8	7.90	6.3	
13110	3:38:30	73.3	70.8	167.1	11.8	7.90	6.3	
13125	3:38:45	73.4	70.7	167.3	11.8	7.90	6.3	
13140	3:39:00	73.4	70.7	167.5	11.8	7.89	6.3	
13155	3:39:15	73.5	70.7	167.7	11.8	7.90	6.3	
13170	3:39:30	73.9	70.7	168.0	11.8	7.91	6.3	
13185	3:39:45	73.7	70.9	168.0	11.8	7.91	6.3	
13200	3:40:00	73.9	70.8	168.1	11.8	7.92	6.3	
13215	3:40:15	73.8	70.8	168.0	11.8	7.92	6.3	
13230	3:40:30	74.4	70.9	167.8	12.4	7.90	6.4	
13245	3:40:45	74.1	70.9	167.7	12.4	7.92	6.4	
13260	3:41:00	74.1	70.9	168.2	12.9	7.92	6.4	
13275	3:41:15	73.8	70.9	168.8	12.9	7.93	6.4	
13290	3:41:30	73.8	70.9	171.5	13.4	7.91	6.4	
13305	3:41:45	74.0	70.9	173.4	14.0	7.91	6.4	
13320	3:42:00	73.7	71.1	174.5	14.0	7.92	6.4	
13335	3:42:15	73.5	71.1	175.1	14.5	7.93	6.4	
13350	3:42:30	72.9	71.1	175.2	15.0	7.93	6.5	
13365	3:42:45	72.7	71.2	175.5	15.0	7.92	6.5	
13380	3:43:00	72.6	71.3	176.2	15.6	7.93	6.4	
13395	3:43:15	73.1	71.3	176.2	15.0	7.95	6.4	
13410	3:43:30	73.8	71.3	176.4	16.1	7.93	6.6	
13425	3:43:45	73.7	71.4	176.7	16.1	7.95	6.6	
13440	3:44:00	73.9	71.5	176.8	16.1	7.95	6.6	
13455	3:44:15	73.9	71.5	176.6	16.1	7.94	6.6	
13470	3:44:30	74.1	71.5	176.7	16.1	7.94	6.4	
13485	3:44:45	74.1	71.5	176.8	15.5	7.95	6.5	
13500	3:45:00	74.0	71.5	177.0	15.5	7.96	6.5	
13515	3:45:15	73.8	71.4	176.9	15.6	7.96	6.6	
13530	3:45:30	73.8	71.4	176.8	15.6	7.96	6.6	
13545	3:45:45	74.1	71.4	176.6	15.0	7.95	6.6	
13560	3:46:00	73.9	71.5	177.1	16.1	7.94	6.5	
13575	3:46:15	74.2	71.5	177.1	15.5	7.96	6.5	
13590	3:46:30	73.9	71.5	177.2	14.5	7.95	6.6	
13605	3:46:45	74.1	71.4	177.1	14.5	7.96	6.6	
13620	3:47:00	73.9	71.5	177.2	14.5	7.96	6.6	
13635	3:47:15	73.9	71.5	177.1	14.5	7.96	6.6	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13650	3:47:30	73.7	71.5	176.8	14.5	7.96	6.5	
13665	3:47:45	73.4	71.4	176.9	14.5	7.96	6.6	
13680	3:48:00	73.7	71.5	176.9	14.5	7.95	6.6	
13695	3:48:15	73.3	71.5	176.8	14.5	7.96	6.6	
13710	3:48:30	73.1	71.6	177.3	15.0	7.96	6.6	
13725	3:48:45	72.8	71.7	177.1	14.5	7.96	6.6	
13740	3:49:00	73.0	71.7	177.5	15.0	7.96	6.5	
13755	3:49:15	72.9	71.7	177.7	16.1	7.98	6.5	
13770	3:49:30	73.1	71.7	177.1	16.1	7.98	6.6	
13785	3:49:45	73.4	71.7	176.5	15.5	7.94	6.5	
13800	3:50:00	73.3	71.7	176.6	16.1	7.94	6.4	
13815	3:50:15	73.4	71.7	176.8	15.5	7.96	6.4	
13830	3:50:30	73.4	71.7	176.9	15.5	7.96	6.6	
13845	3:50:45	73.6	71.6	176.9	15.0	7.95	6.5	
13860	3:51:00	73.7	71.6	177.2	16.1	7.96	6.5	
13875	3:51:15	73.2	71.6	177.2	15.5	7.97	6.5	
13890	3:51:30	73.3	71.7	177.1	15.5	7.97	6.6	
13905	3:51:45	73.4	71.7	177.1	16.1	7.96	6.5	
13920	3:52:00	73.5	71.7	177.2	15.6	7.96	6.5	
13935	3:52:15	73.7	71.7	177.2	15.0	7.96	6.6	
13950	3:52:30	74.0	71.7	177.5	15.0	7.96	6.4	
13965	3:52:45	73.6	71.7	177.5	15.0	7.96	6.5	
13980	3:53:00	74.1	71.7	177.7	15.0	7.96	6.5	
13995	3:53:15	74.2	71.8	177.8	16.1	7.96	6.5	
14010	3:53:30	74.2	71.7	177.7	16.6	7.96	6.4	
14025	3:53:45	74.0	71.7	177.7	16.1	7.96	6.5	
14040	3:54:00	73.7	71.7	178.0	15.0	7.96	6.5	
14055	3:54:15	73.8	71.7	178.1	15.6	7.96	6.5	
14070	3:54:30	73.6	71.7	178.3	15.5	7.96	6.4	
14085	3:54:45	73.8	71.7	178.5	14.5	7.96	6.5	
14100	3:55:00	73.8	71.7	178.7	15.5	7.96	6.5	
14115	3:55:15	74.0	71.7	178.6	15.0	7.97	6.4	
14130	3:55:30	74.2	71.7	178.6	14.5	7.96	6.5	
14145	3:55:45	73.9	71.6	178.6	14.5	7.97	6.5	
14160	3:56:00	74.2	71.6	178.7	15.6	7.97	6.6	
14175	3:56:15	74.5	71.5	178.7	14.5	7.97	6.6	
14190	3:56:30	74.1	71.5	178.6	13.4	7.97	6.6	
14205	3:56:45	74.3	71.4	178.8	14.5	7.97	6.6	
14220	3:57:00	74.0	71.3	178.8	15.0	7.98	6.6	
14235	3:57:15	74.2	71.4	178.6	15.0	7.97	6.6	
14250	3:57:30	74.1	71.3	178.0	15.0	7.96	6.5	
14265	3:57:45	74.1	71.3	177.0	15.5	7.97	6.6	
14280	3:58:00	74.5	71.3	175.2	14.5	7.97	6.6	
14295	3:58:15	74.4	71.3	174.5	14.5	7.96	6.5	
14310	3:58:30	75.0	71.3	175.2	14.5	7.95	6.5	
14325	3:58:45	74.6	71.2	176.0	15.0	7.95	6.5	
14340	3:59:00	74.2	71.2	176.1	16.1	7.95	6.4	
14355	3:59:15	74.3	71.2	176.3	16.1	7.95	6.4	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14370	3:59:30	74.0	71.2	176.4	15.0	7.95	6.5	
14385	3:59:45	74.2	71.2	176.4	15.0	7.95	6.5	
14400	4:00:00	74.1	71.3	176.7	14.5	7.95	6.5	
14415	4:00:15	74.2	71.3	176.6	15.0	7.96	6.5	
14430	4:00:30	74.2	71.4	176.6	15.0	7.95	6.5	
14445	4:00:45	74.5	71.3	176.5	15.0	7.95	6.5	
14460	4:01:00	74.4	71.4	176.4	15.0	7.95	6.5	
14475	4:01:15	74.5	71.4	176.4	15.0	7.95	6.4	
14490	4:01:30	74.4	71.4	177.0	15.6	7.96	6.4	
14505	4:01:45	74.8	71.4	177.7	15.0	7.95	6.4	
14520	4:02:00	75.6	71.4	178.4	14.5	7.94	6.4	
14535	4:02:15	75.3	71.4	178.6	14.5	7.95	6.4	
14550	4:02:30	75.1	71.4	178.6	14.5	7.94	6.4	
14565	4:02:45	74.7	71.4	178.8	14.0	7.94	6.4	
14580	4:03:00	73.6	71.4	178.8	13.4	7.93	6.4	Start Mid Fire Equilibrium - #1
14595	4:03:15	73.7	71.5	179.2	13.4	7.94	6.4	
14610	4:03:30	73.5	71.4	179.1	14.5	7.93	6.5	
14625	4:03:45	73.2	71.4	179.2	14.0	7.94	6.5	
14640	4:04:00	73.4	71.4	179.0	14.5	7.94	6.4	
14655	4:04:15	73.2	71.5	179.5	15.0	7.95	6.3	
14670	4:04:30	73.7	71.4	179.0	14.5	7.95	6.5	
14685	4:04:45	74.1	71.4	179.2	14.5	7.93	6.4	
14700	4:05:00	74.0	71.4	179.5	14.5	7.95	6.3	
14715	4:05:15	74.3	71.4	179.7	15.0	7.95	6.4	
14730	4:05:30	74.6	71.4	179.5	14.5	7.94	6.5	
14745	4:05:45	73.9	71.3	179.5	14.5	7.94	6.4	
14760	4:06:00	74.1	71.3	179.4	14.5	7.94	6.4	
14775	4:06:15	74.3	71.4	179.4	14.0	7.94	6.4	
14790	4:06:30	74.5	71.4	179.5	14.5	7.95	6.4	
14805	4:06:45	74.3	71.4	179.4	14.5	7.95	6.4	
14820	4:07:00	74.4	71.3	179.4	14.5	7.95	6.4	
14835	4:07:15	74.2	71.3	179.3	15.0	7.95	6.4	
14850	4:07:30	74.0	71.3	179.2	14.5	7.94	6.5	
14865	4:07:45	73.8	71.4	179.2	15.0	7.94	6.4	
14880	4:08:00	73.9	71.4	178.9	15.0	7.93	6.4	End Mid Fire Equilibrium - #1
14895	4:08:15	73.5	71.4	179.3	15.0	7.95	6.4	
14910	4:08:30	73.6	71.4	179.3	14.5	7.95	6.4	
14925	4:08:45	73.5	71.4	179.2	14.5	7.95	6.4	
14940	4:09:00	73.2	71.4	179.2	15.0	7.94	6.4	Start Test - Mid Fire - #1
14955	4:09:15	73.4	71.5	179.1	14.5	7.93	6.4	
14970	4:09:30	73.9	71.5	179.2	15.0	7.94	6.3	
14985	4:09:45	74.2	71.5	179.4	14.5	7.94	6.4	
15000	4:10:00	75.4	71.5	179.2	14.5	7.94	6.4	
15015	4:10:15	74.8	71.6	179.2	16.1	7.94	6.4	
15030	4:10:30	74.5	71.5	179.3	15.0	7.94	6.3	
15045	4:10:45	74.3	71.4	179.3	14.5	7.95	6.4	
15060	4:11:00	74.1	71.4	179.1	15.0	7.95	6.5	
15075	4:11:15	74.5	71.4	179.1	15.5	7.94	6.4	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15090	4:11:30	73.8	71.5	179.2	15.5	7.94	6.3	
15105	4:11:45	73.4	71.6	179.0	16.1	7.94	6.4	
15120	4:12:00	73.4	71.6	179.2	15.5	7.94	6.4	
15135	4:12:15	73.4	71.6	179.2	16.1	7.94	6.3	
15150	4:12:30	73.5	71.6	179.4	15.5	7.94	6.4	
15165	4:12:45	73.7	71.7	179.7	14.5	7.95	6.4	
15180	4:13:00	73.8	71.6	179.7	16.1	7.95	6.4	
15195	4:13:15	73.9	71.6	179.9	16.1	7.94	6.4	
15210	4:13:30	74.0	71.5	179.7	16.1	7.95	6.3	
15225	4:13:45	73.9	71.5	179.6	15.5	7.95	6.4	
15240	4:14:00	74.1	71.5	179.5	15.5	7.96	6.4	
15255	4:14:15	74.0	71.5	179.8	15.6	7.96	6.4	
15270	4:14:30	73.9	71.5	179.7	14.5	7.97	6.4	
15285	4:14:45	74.2	71.5	179.8	15.0	7.97	6.4	
15300	4:15:00	74.7	71.5	179.7	15.0	7.98	6.5	
15315	4:15:15	74.3	71.5	179.6	15.0	7.97	6.6	
15330	4:15:30	74.2	71.5	179.7	14.5	7.98	6.5	
15345	4:15:45	74.6	71.5	179.7	15.0	7.98	6.5	
15360	4:16:00	74.6	71.5	179.7	14.0	7.98	6.5	
15375	4:16:15	74.8	71.4	179.7	14.5	7.99	6.5	
15390	4:16:30	74.4	71.4	179.7	15.5	8.00	6.5	
15405	4:16:45	74.2	71.4	180.0	14.5	8.01	6.6	
15420	4:17:00	74.2	71.4	179.9	15.0	8.02	6.7	
15435	4:17:15	74.4	71.4	180.2	14.5	8.02	6.7	
15450	4:17:30	74.3	71.3	180.0	13.9	8.03	6.6	
15465	4:17:45	74.6	71.4	180.2	13.4	8.03	6.7	
15480	4:18:00	74.3	71.3	180.5	13.9	8.04	6.8	
15495	4:18:15	74.6	71.4	180.6	13.9	8.04	6.8	
15510	4:18:30	74.8	71.4	180.5	14.5	8.04	6.8	
15525	4:18:45	74.9	71.4	180.5	13.9	8.04	6.8	
15540	4:19:00	74.9	71.4	180.5	13.4	8.04	6.8	
15555	4:19:15	74.7	71.4	180.5	13.9	8.05	6.8	
15570	4:19:30	74.4	71.4	180.6	13.4	8.06	6.8	
15585	4:19:45	74.3	71.4	180.5	13.4	8.06	6.8	
15600	4:20:00	74.4	71.3	180.8	13.4	8.05	6.8	
15615	4:20:15	74.3	71.4	181.1	14.0	8.06	6.8	
15630	4:20:30	74.0	71.5	180.9	13.4	8.07	7.0	
15645	4:20:45	73.6	71.4	180.5	13.4	8.06	6.9	
15660	4:21:00	74.0	71.4	180.4	13.4	8.07	6.9	
15675	4:21:15	74.4	71.4	180.0	13.4	8.05	7.0	
15690	4:21:30	74.6	71.4	179.9	13.4	8.06	6.9	
15705	4:21:45	74.7	71.4	179.7	13.4	8.06	6.8	
15720	4:22:00	74.6	71.4	180.1	13.4	8.07	6.9	
15735	4:22:15	74.0	71.5	180.0	14.0	8.08	7.0	
15750	4:22:30	73.8	71.5	179.3	13.4	8.06	7.1	
15765	4:22:45	73.3	71.5	179.1	13.4	8.05	7.0	
15780	4:23:00	73.4	71.5	179.2	13.4	8.05	6.9	
15795	4:23:15	73.6	71.5	179.6	13.4	8.05	6.9	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15810	4:23:30	73.7	71.5	179.7	13.4	8.06	6.9	
15825	4:23:45	73.6	71.5	179.8	13.4	8.07	6.9	
15840	4:24:00	74.2	71.5	179.7	13.4	8.07	6.9	
15855	4:24:15	74.1	71.5	179.7	12.9	8.07	7.0	
15870	4:24:30	73.8	71.5	179.8	13.4	8.06	7.0	
15885	4:24:45	73.6	71.6	179.7	13.4	8.07	7.0	
15900	4:25:00	73.6	71.5	179.7	13.4	8.06	6.9	
15915	4:25:15	73.5	71.5	179.9	13.4	8.06	6.9	
15930	4:25:30	73.5	71.5	180.1	13.9	8.07	7.0	
15945	4:25:45	74.1	71.4	180.0	13.9	8.07	6.9	
15960	4:26:00	74.3	71.4	180.0	14.5	8.08	7.0	
15975	4:26:15	74.7	71.4	180.2	13.9	8.07	7.1	
15990	4:26:30	74.6	71.3	179.8	13.9	8.07	7.0	
16005	4:26:45	74.4	71.3	179.8	13.9	8.05	6.9	
16020	4:27:00	74.5	71.3	179.9	13.4	8.06	7.0	
16035	4:27:15	74.2	71.4	179.7	13.9	8.06	7.0	
16050	4:27:30	73.8	71.3	179.5	13.9	8.05	6.9	
16065	4:27:45	74.1	71.3	179.6	13.9	8.05	6.9	
16080	4:28:00	74.5	71.3	179.6	13.4	8.03	6.8	
16095	4:28:15	73.9	71.3	179.4	13.9	8.03	6.8	
16110	4:28:30	74.0	71.3	179.3	13.9	8.02	6.7	
16125	4:28:45	74.3	71.3	178.9	13.9	8.02	6.7	
16140	4:29:00	74.4	71.3	178.9	14.0	7.99	6.6	
16155	4:29:15	74.5	71.3	179.3	13.9	7.99	6.6	
16170	4:29:30	74.1	71.3	179.8	14.5	8.02	6.6	
16185	4:29:45	73.7	71.3	178.9	15.0	8.02	6.7	
16200	4:30:00	74.3	71.2	179.0	15.5	7.97	6.6	
16215	4:30:15	74.2	71.2	179.4	16.6	7.99	6.4	
16230	4:30:30	74.6	71.3	179.1	15.5	7.97	6.7	
16245	4:30:45	74.6	71.3	179.2	15.0	7.99	6.5	
16260	4:31:00	74.5	71.2	178.9	14.5	7.98	6.4	
16275	4:31:15	74.0	71.3	179.0	15.0	7.96	6.5	
16290	4:31:30	74.4	71.3	178.7	15.5	7.96	6.4	
16305	4:31:45	75.1	71.3	178.7	17.1	7.95	6.4	
16320	4:32:00	74.4	71.3	178.3	16.6	7.94	6.4	
16335	4:32:15	74.1	71.4	178.5	17.1	7.94	6.4	
16350	4:32:30	74.4	71.3	178.2	16.1	7.95	6.3	
16365	4:32:45	75.6	71.3	178.5	17.1	7.93	6.3	
16380	4:33:00	74.8	71.4	178.8	16.6	7.96	6.4	
16395	4:33:15	74.5	71.4	178.3	15.5	7.96	6.4	
16410	4:33:30	73.7	71.4	178.0	15.9	7.94	6.4	
16425	4:33:45	74.0	71.4	178.1	16.1	7.93	6.3	
16440	4:34:00	73.8	71.3	178.3	15.5	7.93	6.3	
16455	4:34:15	73.9	71.3	178.1	15.5	7.94	6.3	
16470	4:34:30	73.7	71.3	178.2	15.5	7.95	6.4	
16485	4:34:45	73.3	71.3	178.1	15.0	7.96	6.3	
16500	4:35:00	73.6	71.4	178.4	15.5	7.94	6.3	
16515	4:35:15	73.8	71.5	178.7	16.1	7.96	6.3	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
16530	4:35:30	74.2	71.5	178.8	16.6	7.97	6.4	
16545	4:35:45	74.3	71.6	179.0	15.0	7.97	6.4	
16560	4:36:00	74.6	71.5	179.0	13.9	7.98	6.4	Start Emissions
16575	4:36:15	74.8	71.5	179.3	13.9	7.97	6.4	
16590	4:36:30	74.8	71.5	179.1	13.9	7.98	6.4	
16605	4:36:45	74.6	71.4	178.7	14.5	7.98	6.4	
16620	4:37:00	74.3	71.5	179.0	15.5	7.97	6.4	1st Minute
16635	4:37:15	74.0	71.4	179.0	15.0	7.98	6.3	
16650	4:37:30	74.3	71.6	178.8	15.5	7.98	6.4	
16665	4:37:45	74.4	71.5	178.3	16.6	7.97	6.4	
16680	4:38:00	74.6	71.5	178.0	16.1	7.96	6.4	2nd Minute
16695	4:38:15	74.6	71.5	178.7	16.6	7.96	6.3	
16710	4:38:30	74.4	71.4	179.0	16.6	7.99	6.3	
16725	4:38:45	74.7	71.4	178.8	16.1	7.98	6.4	
16740	4:39:00	75.2	71.4	178.9	15.5	7.99	6.5	3rd Minute / EOT - Mid Fire - #1
16755	4:39:15	74.7	71.4	178.8	15.0	7.99	6.5	
16770	4:39:30	74.6	71.4	179.0	15.0	7.98	6.5	CO2 (Avg) % = 7.98
16785	4:39:45	74.6	71.4	179.0	14.5	7.98	6.5	NOx (Avg) ppm = 6.4
16800	4:40:00	74.5	71.4	179.0	15.0	7.98	6.5	CO (Max) ppm = 17.1
16815	4:40:15	74.8	71.4	179.0	14.5	7.99	6.5	Ambient (Avg) F = 74.2
16830	4:40:30	74.9	71.4	179.0	14.5	8.00	6.6	T_In (Avg) F = 71.4
16845	4:40:45	74.5	71.4	178.7	13.4	8.00	6.5	T_Del (Avg) F = 179.4
16860	4:41:00	74.2	71.5	178.9	13.9	7.97	6.4	
16875	4:41:15	73.9	71.4	178.6	15.0	7.97	6.4	
16890	4:41:30	73.7	71.4	178.7	14.5	7.99	6.3	
16905	4:41:45	74.0	71.5	178.8	13.9	8.00	6.4	
16920	4:42:00	74.1	71.5	179.3	13.9	8.00	6.5	
16935	4:42:15	73.8	71.5	179.4	13.9	8.00	6.5	
16950	4:42:30	73.8	71.5	179.3	14.5	8.01	6.6	
16965	4:42:45	74.5	71.5	179.3	14.5	8.00	6.6	
16980	4:43:00	74.3	71.5	179.4	15.5	8.01	6.6	
16995	4:43:15	74.7	71.4	179.3	15.0	8.01	6.6	
17010	4:43:30	75.1	71.4	179.3	15.0	8.01	6.6	
17025	4:43:45	74.8	71.4	179.4	15.0	8.01	6.7	
17040	4:44:00	74.5	71.4	179.7	14.5	8.00	6.6	
17055	4:44:15	74.7	71.3	156.2	13.9	8.02	6.5	
17070	4:44:30	74.7	71.4	86.7	14.5	3.62	6.7	
17085	4:44:45	74.8	71.2	77.6	2.2	0.28	4.1	
17100	4:45:00	74.6	70.2	75.1	0.0	0.14	1.3	
17115	4:45:15	74.0	69.6	73.9	0.0	0.11	1.2	
17130	4:45:30	73.9	69.2	72.7	0.0	0.09	1.2	
17145	4:45:45	73.8	69.0	71.8	0.0	0.09	1.1	
17160	4:46:00	74.1	68.9	71.3	0.0	0.09	1.1	
17175	4:46:15	74.5	68.9	71.0	0.0	0.10	1.1	
17190	4:46:30	74.2	68.8	70.7	0.0	0.12	1.1	
17205	4:46:45	73.6	68.8	70.7	1.7	0.14	1.1	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17220	4:47:00	73.7	68.8	70.5	4.4	0.17	1.1	
17235	4:47:15	73.6	68.9	70.5	7.6	0.20	1.1	
17250	4:47:30	74.1	68.9	70.5	10.2	0.22	1.2	
17265	4:47:45	74.4	68.9	70.4	12.4	0.23	1.2	
17280	4:48:00	74.3	68.9	70.4	12.9	0.23	1.2	
17295	4:48:15	74.0	68.9	70.3	12.9	0.22	1.1	
17310	4:48:30	73.8	68.8	70.3	12.9	0.22	1.1	
17325	4:48:45	74.2	68.8	70.2	12.4	0.21	1.1	
17340	4:49:00	74.4	68.8	70.1	13.4	0.21	1.1	
17355	4:49:15	73.9	68.7	70.1	13.4	0.20	1.1	
17370	4:49:30	74.4	68.7	70.1	12.4	0.20	1.0	
17385	4:49:45	74.5	68.7	70.1	11.3	0.18	0.9	
17400	4:50:00	74.6	68.8	70.1	11.8	0.18	0.9	
17415	4:50:15	74.9	68.7	69.9	12.4	0.18	0.9	
17430	4:50:30	74.8	68.7	70.0	12.4	0.18	0.9	
17445	4:50:45	74.4	68.7	69.9	11.8	0.17	0.9	
17460	4:51:00	74.2	68.7	69.9	10.8	0.16	0.8	
17475	4:51:15	74.1	68.7	69.9	10.2	0.15	0.8	
17490	4:51:30	74.3	68.7	69.8	9.7	0.15	0.8	
17505	4:51:45	74.5	68.7	69.8	9.2	0.13	0.7	
17520	4:52:00	74.4	68.6	69.8	8.1	0.13	0.7	
17535	4:52:15	74.0	68.6	69.7	8.6	0.13	0.7	
17550	4:52:30	73.6	68.5	69.7	7.6	0.12	0.7	
17565	4:52:45	73.5	68.5	69.7	7.0	0.12	0.7	
17580	4:53:00	74.1	68.6	69.7	7.6	0.12	0.6	
17595	4:53:15	74.7	68.5	69.7	6.0	0.11	0.6	
17610	4:53:30	74.4	68.4	69.6	5.4	0.10	0.6	
17625	4:53:45	74.8	68.4	69.5	4.9	0.10	0.6	
17640	4:54:00	73.9	68.3	69.4	5.4	0.10	0.6	
17655	4:54:15	74.1	68.3	69.4	5.4	0.10	0.6	
17670	4:54:30	74.1	68.3	69.5	6.0	0.11	0.5	
17685	4:54:45	74.2	68.2	69.4	4.9	0.10	0.5	
17700	4:55:00	74.1	68.2	69.2	3.8	0.08	0.5	
17715	4:55:15	74.6	68.1	69.4	3.3	0.09	0.5	
17730	4:55:30	74.6	68.1	72.2	3.3	0.08	0.5	
17745	4:55:45	74.5	68.1	70.0	168.6	0.68	0.4	
17760	4:56:00	74.0	68.0	69.5	32.1	0.13	0.4	
17775	4:56:15	74.8	68.0	70.9	1.2	0.05	0.4	
17790	4:56:30	74.6	68.0	69.8	104.8	0.52	0.2	
17805	4:56:45	74.2	68.0	69.6	16.6	0.09	0.6	
17820	4:57:00	74.4	68.0	69.4	0.0	0.05	0.6	
17835	4:57:15	74.4	67.9	72.3	0.0	0.04	0.2	
17850	4:57:30	74.6	67.9	100.9	129.0	1.19	0.2	
17865	4:57:45	74.4	68.0	131.6	91.6	7.18	1.3	
17880	4:58:00	74.6	68.1	152.1	44.8	8.32	5.1	
17895	4:58:15	74.5	68.1	162.2	41.1	8.53	7.8	
17910	4:58:30	74.6	68.2	167.6	41.6	8.58	10.6	
17925	4:58:45	74.5	68.2	170.7	42.7	8.61	11.0	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
17940	4:59:00	74.5	68.1	172.5	44.3	8.64	11.7	
17955	4:59:15	74.2	68.1	174.1	45.9	8.66	11.9	
17970	4:59:30	74.1	68.1	175.2	46.4	8.66	12.4	
17985	4:59:45	74.3	68.2	175.9	47.0	8.67	12.4	
18000	5:00:00	74.6	68.1	176.8	47.5	8.68	12.7	
18015	5:00:15	74.4	68.1	177.5	48.6	8.70	12.9	
18030	5:00:30	74.1	68.1	177.8	48.5	8.70	13.2	
18045	5:00:45	74.2	68.2	178.2	49.1	8.70	13.2	
18060	5:01:00	74.3	68.2	178.8	49.1	8.71	13.2	
18075	5:01:15	74.4	68.2	179.2	50.1	8.72	13.3	
18090	5:01:30	74.6	68.2	179.5	50.7	8.73	13.5	
18105	5:01:45	74.6	68.2	179.8	51.2	8.74	13.6	
18120	5:02:00	74.6	68.2	180.0	51.2	8.75	13.9	
18135	5:02:15	74.2	68.2	180.2	51.7	8.75	14.0	
18150	5:02:30	74.0	68.3	180.4	51.7	8.76	14.2	
18165	5:02:45	74.1	68.3	180.5	51.7	8.75	14.3	
18180	5:03:00	74.4	68.4	180.7	52.3	8.76	14.4	
18195	5:03:15	74.6	68.5	180.8	52.3	8.76	14.4	
18210	5:03:30	74.6	68.4	180.9	52.3	8.75	14.6	
18225	5:03:45	74.7	68.4	180.7	52.3	8.75	14.6	
18240	5:04:00	74.8	68.4	180.4	51.7	8.75	14.6	
18255	5:04:15	75.0	68.4	179.0	51.2	8.74	14.6	
18270	5:04:30	74.9	68.3	176.5	50.7	8.73	14.6	
18285	5:04:45	75.1	68.3	175.7	50.7	8.72	14.5	
18300	5:05:00	75.2	68.4	175.7	50.7	8.72	14.4	
18315	5:05:15	75.0	68.4	176.0	50.7	8.72	14.4	
18330	5:05:30	74.7	68.5	176.5	50.1	8.71	14.5	
18345	5:05:45	74.8	68.5	175.4	50.1	8.71	14.5	
18360	5:06:00	74.9	68.4	175.0	50.7	8.72	14.5	
18375	5:06:15	74.7	68.4	174.9	49.6	8.70	14.6	
18390	5:06:30	74.6	68.4	174.7	50.1	8.71	14.3	
18405	5:06:45	74.5	68.5	174.6	50.1	8.71	14.5	
18420	5:07:00	74.5	68.6	174.6	50.1	8.71	14.7	
18435	5:07:15	74.6	68.6	174.5	50.1	8.71	14.7	
18450	5:07:30	74.8	68.7	174.7	50.7	8.72	14.6	
18465	5:07:45	74.7	68.7	174.9	51.2	8.73	14.7	
18480	5:08:00	74.8	68.7	175.3	52.3	8.75	14.9	
18495	5:08:15	75.1	68.9	176.4	52.3	8.75	15.1	
18510	5:08:30	75.0	68.8	176.2	53.3	8.77	15.0	
18525	5:08:45	74.8	68.8	176.5	53.3	8.79	15.2	
18540	5:09:00	74.9	68.9	176.8	54.4	8.80	15.5	
18555	5:09:15	75.2	68.9	176.7	54.4	8.80	15.6	
18570	5:09:30	75.3	69.0	176.9	54.9	8.81	15.7	
18585	5:09:45	75.2	69.0	177.1	55.5	8.82	15.7	
18600	5:10:00	74.9	68.9	177.1	56.0	8.82	15.8	
18615	5:10:15	74.9	68.9	177.1	56.0	8.82	15.8	
18630	5:10:30	74.7	69.0	177.0	56.0	8.82	15.9	
18645	5:10:45	75.1	68.9	177.1	56.0	8.81	15.8	

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
18660	5:11:00	75.1	69.0	177.1	56.0	8.82	15.8	
18675	5:11:15	75.1	68.9	177.1	55.5	8.81	15.9	
18690	5:11:30	75.1	68.9	177.1	54.9	8.81	15.8	
18705	5:11:45	75.1	69.0	177.1	55.5	8.81	15.8	
18720	5:12:00	74.9	69.0	177.0	55.5	8.81	15.8	
18735	5:12:15	74.8	69.0	176.9	54.9	8.81	15.8	
18750	5:12:30	74.8	69.0	177.0	54.4	8.79	15.8	
18765	5:12:45	74.5	69.0	177.0	53.9	8.78	15.7	
18780	5:13:00	74.6	69.1	177.0	53.3	8.77	15.5	
18795	5:13:15	74.5	69.2	177.1	53.3	8.77	15.3	
18810	5:13:30	74.6	69.1	176.9	53.3	8.77	15.4	
18825	5:13:45	74.3	69.3	176.9	52.8	8.76	15.3	
18840	5:14:00	74.5	69.4	177.0	52.8	8.76	15.2	
18855	5:14:15	74.4	69.3	177.3	52.8	8.76	15.2	
18870	5:14:30	74.6	69.4	177.2	52.3	8.75	15.2	
18885	5:14:45	75.1	69.4	177.1	52.3	8.75	15.1	
18900	5:15:00	75.2	69.4	177.2	52.3	8.74	15.1	
18915	5:15:15	75.2	69.4	177.3	51.7	8.74	15.1	
18930	5:15:30	75.0	69.4	177.2	51.7	8.73	15.0	
18945	5:15:45	75.1	69.5	177.3	51.2	8.73	15.0	
18960	5:16:00	74.7	69.5	177.3	51.2	8.73	14.9	
18975	5:16:15	74.6	69.5	177.3	50.7	8.72	14.8	
18990	5:16:30	74.6	69.5	177.2	50.1	8.71	14.7	
19005	5:16:45	74.6	69.5	177.2	50.1	8.70	14.6	
19020	5:17:00	74.0	69.6	177.3	50.1	8.71	14.6	
19035	5:17:15	74.1	69.6	177.2	50.1	8.71	14.6	
19050	5:17:30	74.7	69.6	177.3	49.6	8.71	14.6	
19065	5:17:45	74.4	69.6	177.4	49.6	8.70	14.5	
19080	5:18:00	74.3	69.7	177.2	49.6	8.70	14.5	
19095	5:18:15	74.4	69.7	177.2	49.6	8.70	14.5	
19110	5:18:30	74.9	69.7	177.5	49.6	8.70	14.5	
19125	5:18:45	75.2	69.7	177.4	50.1	8.71	14.5	
19140	5:19:00	75.1	69.7	177.5	50.1	8.70	14.5	
19155	5:19:15	75.4	69.7	177.6	50.1	8.71	14.5	
19170	5:19:30	75.2	69.6	177.5	50.7	8.71	14.6	
19185	5:19:45	75.1	69.6	177.3	50.1	8.71	14.6	
19200	5:20:00	74.9	69.6	177.5	50.1	8.70	14.6	
19215	5:20:15	74.9	69.6	177.8	50.1	8.71	14.5	
19230	5:20:30	74.8	69.6	177.8	50.1	8.71	14.5	
19245	5:20:45	74.8	69.6	177.9	50.1	8.71	14.6	
19260	5:21:00	74.6	69.7	178.0	50.1	8.71	14.6	
19275	5:21:15	74.8	69.7	178.0	49.6	8.70	14.5	
19290	5:21:30	75.1	69.7	177.9	49.6	8.70	14.4	
19305	5:21:45	74.9	69.7	177.7	50.1	8.71	14.4	
19320	5:22:00	75.1	69.6	177.9	50.1	8.71	14.5	
19335	5:22:15	74.8	69.6	177.9	50.1	8.71	14.6	
19350	5:22:30	74.6	69.6	177.9	50.1	8.71	14.7	
19365	5:22:45	74.5	69.6	177.8	50.1	8.71	14.6	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
19380	5:23:00	74.7	69.7	177.9	49.6	8.70	14.5	
19395	5:23:15	74.8	69.7	177.7	49.6	8.71	14.5	
19410	5:23:30	74.6	69.7	177.9	49.6	8.70	14.5	
19425	5:23:45	74.8	69.6	177.9	49.6	8.70	14.4	
19440	5:24:00	75.6	69.7	178.2	49.6	8.70	14.4	
19455	5:24:15	75.4	69.7	178.2	49.6	8.71	14.4	
19470	5:24:30	75.2	69.7	178.2	50.1	8.71	14.5	
19485	5:24:45	74.7	69.7	178.4	49.6	8.70	14.5	
19500	5:25:00	74.4	69.7	178.4	49.6	8.70	14.4	
19515	5:25:15	74.6	69.8	178.5	49.6	8.70	14.3	
19530	5:25:30	75.0	69.8	178.5	49.6	8.70	14.3	
19545	5:25:45	75.6	69.8	178.4	49.6	8.70	14.3	
19560	5:26:00	75.7	69.8	178.6	49.1	8.70	14.3	
19575	5:26:15	75.9	69.8	178.5	49.1	8.69	14.3	
19590	5:26:30	75.1	69.8	178.3	49.1	8.69	14.2	
19605	5:26:45	75.1	69.8	178.3	49.1	8.69	14.2	
19620	5:27:00	74.8	69.9	178.5	49.1	8.70	14.2	
19635	5:27:15	74.4	69.8	178.5	49.1	8.70	14.2	
19650	5:27:30	74.3	69.9	178.6	49.1	8.69	14.2	
19665	5:27:45	75.9	70.0	178.6	49.6	8.70	14.2	
19680	5:28:00	75.7	69.9	178.6	49.1	8.69	14.2	
19695	5:28:15	76.6	69.9	178.7	49.6	8.70	14.1	
19710	5:28:30	75.6	69.9	178.7	49.6	8.70	14.1	
19725	5:28:45	75.6	69.9	178.6	50.1	8.70	14.2	
19740	5:29:00	74.1	69.9	178.7	49.6	8.70	14.2	
19755	5:29:15	74.9	69.9	178.9	49.6	8.70	14.2	
19770	5:29:30	74.6	69.9	178.8	49.6	8.70	14.2	
19785	5:29:45	74.3	70.0	178.8	49.6	8.69	14.2	
19800	5:30:00	74.2	70.0	179.0	50.1	8.70	14.2	
19815	5:30:15	75.0	70.0	178.9	49.6	8.70	14.2	
19830	5:30:30	75.2	70.0	178.8	49.6	8.69	14.1	
19845	5:30:45	74.6	69.9	178.7	49.6	8.69	14.1	
19860	5:31:00	74.5	70.0	178.9	49.6	8.69	14.1	
19875	5:31:15	74.5	70.0	178.7	49.1	8.69	14.1	
19890	5:31:30	74.3	69.9	178.8	49.6	8.69	14.1	
19905	5:31:45	74.8	70.0	178.7	49.6	8.69	14.1	
19920	5:32:00	75.4	70.0	178.7	49.6	8.69	14.1	
19935	5:32:15	74.9	69.9	178.7	49.1	8.69	14.1	
19950	5:32:30	76.0	69.9	178.6	49.1	8.68	14.0	
19965	5:32:45	76.4	69.9	178.7	49.1	8.68	14.0	
19980	5:33:00	75.7	69.9	178.8	49.1	8.68	14.0	
19995	5:33:15	75.0	70.0	178.6	49.1	8.69	13.9	
20010	5:33:30	75.1	69.9	178.7	49.1	8.68	14.1	
20025	5:33:45	75.4	70.0	179.0	49.6	8.69	14.0	
20040	5:34:00	75.2	69.9	178.7	49.1	8.69	14.0	
20055	5:34:15	74.9	69.9	178.8	49.1	8.68	14.1	
20070	5:34:30	74.9	69.8	179.0	49.1	8.69	14.0	
20085	5:34:45	74.8	69.9	179.0	49.1	8.68	14.0	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20100	5:35:00	74.4	70.0	178.8	49.1	8.68	14.0	
20115	5:35:15	74.4	69.9	178.9	49.1	8.69	14.0	
20130	5:35:30	74.4	70.1	178.9	49.6	8.69	14.1	
20145	5:35:45	74.2	70.0	178.9	49.6	8.69	14.1	
20160	5:36:00	74.2	70.1	179.0	49.6	8.69	14.1	
20175	5:36:15	74.4	70.1	179.0	49.6	8.69	14.0	
20190	5:36:30	74.7	70.1	178.9	49.6	8.70	14.1	
20205	5:36:45	74.4	70.1	179.0	49.6	8.70	14.1	
20220	5:37:00	74.5	70.0	179.0	49.6	8.70	14.1	
20235	5:37:15	74.3	70.1	179.0	49.6	8.70	14.1	
20250	5:37:30	74.4	70.0	179.0	50.1	8.70	14.1	
20265	5:37:45	75.3	70.0	178.9	50.1	8.71	14.2	
20280	5:38:00	74.6	70.0	179.0	50.1	8.70	14.2	
20295	5:38:15	74.9	70.0	178.9	50.1	8.71	14.2	
20310	5:38:30	74.8	70.0	179.0	50.1	8.70	14.3	
20325	5:38:45	74.7	70.0	179.1	50.1	8.70	14.3	
20340	5:39:00	74.5	70.0	179.1	50.7	8.71	14.2	
20355	5:39:15	74.5	70.0	179.1	50.7	8.71	14.3	
20370	5:39:30	74.6	70.1	179.0	50.1	8.70	14.2	
20385	5:39:45	74.7	70.1	179.2	50.7	8.71	14.2	
20400	5:40:00	74.8	70.0	179.3	50.7	8.71	14.2	
20415	5:40:15	74.9	70.0	179.2	50.7	8.71	14.3	
20430	5:40:30	75.0	70.0	179.0	50.7	8.71	14.3	
20445	5:40:45	75.3	70.1	179.3	50.7	8.70	14.2	
20460	5:41:00	75.4	70.0	179.3	50.7	8.71	14.3	
20475	5:41:15	75.8	70.0	179.0	50.7	8.71	14.3	
20490	5:41:30	76.0	70.0	179.1	50.1	8.71	14.4	
20505	5:41:45	76.6	70.0	179.1	50.1	8.71	14.3	
20520	5:42:00	75.8	70.0	179.0	50.7	8.71	14.3	
20535	5:42:15	75.6	70.0	178.9	50.1	8.71	14.3	
20550	5:42:30	76.1	70.0	179.1	50.1	8.71	14.3	
20565	5:42:45	76.2	69.9	178.9	50.7	8.71	14.3	
20580	5:43:00	75.1	69.9	178.9	50.1	8.70	14.2	
20595	5:43:15	74.6	69.9	179.0	49.6	8.69	14.1	
20610	5:43:30	75.5	70.0	178.9	49.6	8.69	14.0	
20625	5:43:45	76.0	70.0	178.7	49.6	8.70	14.1	
20640	5:44:00	75.9	70.0	178.9	49.6	8.69	14.1	
20655	5:44:15	75.5	70.0	179.0	49.6	8.70	14.1	
20670	5:44:30	75.0	69.9	178.8	49.1	8.69	14.1	
20685	5:44:45	75.1	69.9	178.8	49.1	8.69	14.1	
20700	5:45:00	75.1	69.9	178.8	49.6	8.70	14.1	
20715	5:45:15	75.1	70.0	178.8	49.1	8.69	14.1	
20730	5:45:30	75.1	70.0	178.9	49.1	8.69	14.1	
20745	5:45:45	74.8	70.0	178.8	49.1	8.69	14.1	
20760	5:46:00	75.0	70.0	178.9	49.6	8.70	14.1	
20775	5:46:15	74.9	70.0	178.9	49.6	8.70	14.1	
20790	5:46:30	74.6	70.0	178.8	49.6	8.70	14.1	
20805	5:46:45	74.3	69.9	179.0	49.6	8.70	14.1	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20820	5:47:00	74.3	70.0	178.7	49.6	8.70	14.1	
20835	5:47:15	75.0	70.1	179.0	49.6	8.70	14.1	
20850	5:47:30	74.8	70.0	179.0	50.1	8.70	14.1	
20865	5:47:45	75.1	70.0	178.9	50.1	8.70	14.2	
20880	5:48:00	74.9	70.0	178.9	50.1	8.70	14.1	
20895	5:48:15	75.0	70.0	179.0	50.1	8.70	14.1	
20910	5:48:30	75.1	70.0	178.9	50.1	8.71	14.1	
20925	5:48:45	75.1	69.9	178.9	50.1	8.70	14.1	
20940	5:49:00	75.3	69.9	179.0	49.6	8.70	14.2	
20955	5:49:15	74.9	69.8	179.1	50.1	8.70	14.2	
20970	5:49:30	74.9	69.9	178.9	50.7	8.72	14.2	
20985	5:49:45	75.3	69.9	178.9	51.2	8.72	14.3	
21000	5:50:00	75.2	69.9	178.9	50.7	8.71	14.5	
21015	5:50:15	75.5	69.9	178.8	50.1	8.71	14.4	
21030	5:50:30	75.3	69.9	178.7	50.1	8.70	14.3	
21045	5:50:45	74.8	69.8	178.7	49.6	8.70	14.3	
21060	5:51:00	74.7	69.9	179.0	49.6	8.70	14.2	
21075	5:51:15	74.8	69.9	178.8	49.6	8.70	14.3	
21090	5:51:30	75.0	69.9	178.7	49.6	8.70	14.3	
21105	5:51:45	75.5	69.9	178.9	49.6	8.70	14.2	
21120	5:52:00	75.1	69.9	178.8	49.6	8.70	14.1	
21135	5:52:15	75.5	69.9	178.8	49.6	8.70	14.1	
21150	5:52:30	75.4	69.9	178.8	49.1	8.69	14.1	
21165	5:52:45	74.7	69.9	178.8	48.5	8.68	14.0	
21180	5:53:00	74.7	69.9	178.7	48.5	8.68	13.9	
21195	5:53:15	76.0	69.9	178.8	48.5	8.68	14.0	
21210	5:53:30	76.1	69.9	179.0	49.1	8.68	13.9	
21225	5:53:45	75.9	69.9	178.9	48.5	8.68	14.0	
21240	5:54:00	76.4	69.9	178.7	48.5	8.68	14.0	
21255	5:54:15	76.7	69.9	179.0	49.1	8.68	14.0	
21270	5:54:30	75.8	70.0	178.9	49.1	8.69	13.9	
21285	5:54:45	75.3	70.0	178.7	49.1	8.69	13.9	
21300	5:55:00	74.6	70.0	178.9	49.6	8.70	14.0	
21315	5:55:15	74.3	70.0	178.9	49.1	8.69	14.0	
21330	5:55:30	74.7	70.0	178.7	49.1	8.70	14.0	
21345	5:55:45	74.6	70.0	178.5	49.1	8.70	14.0	
21360	5:56:00	74.5	70.0	178.6	49.1	8.69	14.0	
21375	5:56:15	74.6	70.0	178.7	49.1	8.70	14.0	
21390	5:56:30	74.1	70.0	178.6	49.6	8.70	14.0	
21405	5:56:45	74.2	70.0	178.7	49.6	8.70	14.1	
21420	5:57:00	74.7	70.1	178.7	49.6	8.70	14.2	Start High Fire Equilibrium - #2
21435	5:57:15	74.8	70.1	178.8	49.1	8.69	14.1	
21450	5:57:30	74.7	70.2	178.8	48.5	8.68	13.9	
21465	5:57:45	75.2	70.2	178.7	48.5	8.68	13.9	
21480	5:58:00	75.2	70.2	179.0	48.5	8.68	13.9	
21495	5:58:15	74.8	70.2	178.9	49.1	8.69	13.9	
21510	5:58:30	74.9	70.1	178.8	49.1	8.69	14.0	
21525	5:58:45	74.6	70.2	178.8	49.2	8.70	14.0	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
21540	5:59:00	74.6	70.1	178.8	49.1	8.70	14.1	
21555	5:59:15	74.6	70.1	178.7	49.1	8.69	14.1	
21570	5:59:30	74.7	70.2	178.8	49.1	8.68	14.0	
21585	5:59:45	74.5	70.1	178.7	49.1	8.68	14.0	
21600	6:00:00	75.2	70.1	178.7	48.5	8.68	14.0	
21615	6:00:15	75.1	70.1	178.8	49.1	8.68	13.9	
21630	6:00:30	75.1	70.1	178.7	49.1	8.68	14.0	
21645	6:00:45	74.8	70.0	178.7	48.5	8.68	14.0	
21660	6:01:00	74.9	70.0	178.8	48.5	8.68	14.0	
21675	6:01:15	75.0	70.0	178.7	48.0	8.67	14.0	
21690	6:01:30	74.7	70.0	178.8	48.5	8.67	13.8	
21705	6:01:45	74.4	70.1	178.9	48.5	8.68	13.8	
21720	6:02:00	74.7	70.2	178.7	48.5	8.68	13.9	End High Fire Equilibrium - #2
21735	6:02:15	74.9	70.2	178.8	48.5	8.67	13.9	
21750	6:02:30	75.3	70.1	178.8	48.5	8.67	13.9	
21765	6:02:45	75.4	70.2	178.9	48.5	8.67	13.8	
21780	6:03:00	75.2	70.1	178.9	48.5	8.67	13.8	Start Test - High Fire - #2
21795	6:03:15	75.0	70.2	178.8	48.0	8.67	13.9	
21810	6:03:30	75.8	70.1	178.7	48.0	8.67	13.9	
21825	6:03:45	75.6	70.0	178.7	48.0	8.67	13.8	
21840	6:04:00	75.4	70.1	178.8	48.5	8.67	13.8	
21855	6:04:15	75.3	70.0	178.6	48.5	8.67	13.8	
21870	6:04:30	75.5	70.0	178.7	48.0	8.66	13.9	
21885	6:04:45	75.1	69.9	178.6	48.0	8.67	13.8	
21900	6:05:00	75.1	70.0	178.5	48.5	8.68	13.8	
21915	6:05:15	74.5	70.0	178.7	48.5	8.67	14.0	
21930	6:05:30	74.8	69.9	178.6	48.5	8.68	13.9	
21945	6:05:45	75.1	69.9	178.8	48.5	8.68	13.9	
21960	6:06:00	74.8	69.9	178.7	48.5	8.68	14.0	
21975	6:06:15	75.1	69.9	178.8	48.5	8.67	14.0	
21990	6:06:30	75.3	70.0	178.6	48.0	8.67	13.8	
22005	6:06:45	75.1	70.0	178.4	48.0	8.67	13.8	
22020	6:07:00	75.1	70.0	178.5	47.5	8.67	13.8	
22035	6:07:15	75.4	70.0	178.7	48.0	8.67	13.8	
22050	6:07:30	75.2	69.9	178.4	48.0	8.67	13.8	
22065	6:07:45	74.9	70.1	178.6	48.0	8.67	13.8	
22080	6:08:00	75.4	70.1	178.7	47.5	8.67	13.8	
22095	6:08:15	75.7	70.1	178.8	48.0	8.67	13.7	
22110	6:08:30	76.1	70.1	178.7	48.0	8.67	13.8	
22125	6:08:45	76.1	70.1	178.6	48.0	8.67	13.7	
22140	6:09:00	75.5	70.1	178.8	48.5	8.67	13.7	
22155	6:09:15	75.3	70.1	178.9	48.0	8.67	13.8	
22170	6:09:30	75.1	70.0	178.7	48.0	8.67	13.8	
22185	6:09:45	74.9	70.0	178.9	48.0	8.66	13.8	
22200	6:10:00	74.6	70.1	179.0	48.0	8.67	13.7	
22215	6:10:15	75.0	70.2	178.9	48.0	8.67	13.6	
22230	6:10:30	75.6	70.2	179.0	48.0	8.67	13.7	
22245	6:10:45	76.5	70.1	178.9	48.0	8.67	13.7	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22260	6:11:00	75.9	70.1	179.0	48.0	8.67	13.7	
22275	6:11:15	75.1	70.1	179.0	48.0	8.66	13.7	
22290	6:11:30	74.9	70.1	179.0	48.0	8.67	13.6	
22305	6:11:45	74.6	70.1	178.9	48.0	8.67	13.7	
22320	6:12:00	74.3	70.1	179.0	48.0	8.67	13.7	
22335	6:12:15	74.5	70.0	178.8	48.5	8.68	13.7	
22350	6:12:30	74.2	70.1	178.8	48.5	8.67	13.8	
22365	6:12:45	74.4	70.1	178.8	48.5	8.68	13.8	
22380	6:13:00	74.9	70.2	179.0	48.5	8.67	13.7	
22395	6:13:15	74.7	70.2	178.9	48.0	8.67	13.6	
22410	6:13:30	74.9	70.1	178.8	48.5	8.67	13.7	
22425	6:13:45	75.0	70.2	178.8	48.5	8.68	13.7	
22440	6:14:00	74.9	70.1	178.9	48.5	8.68	13.8	
22455	6:14:15	75.0	70.1	179.0	48.0	8.67	13.8	
22470	6:14:30	74.7	70.1	178.8	48.0	8.67	13.7	
22485	6:14:45	74.9	70.1	178.8	48.0	8.66	13.7	
22500	6:15:00	75.0	70.1	178.9	48.0	8.66	13.7	
22515	6:15:15	75.0	70.1	178.9	48.0	8.67	13.7	
22530	6:15:30	75.4	70.1	179.0	48.0	8.67	13.7	
22545	6:15:45	75.0	70.0	178.9	48.0	8.67	13.7	
22560	6:16:00	74.8	70.0	178.8	48.0	8.67	13.7	
22575	6:16:15	75.3	70.0	178.9	48.0	8.67	13.7	
22590	6:16:30	75.3	69.9	178.9	48.0	8.67	13.6	
22605	6:16:45	75.3	70.0	178.8	48.5	8.67	13.7	
22620	6:17:00	75.2	70.0	178.8	48.5	8.68	13.8	
22635	6:17:15	75.4	70.1	178.9	48.5	8.68	13.8	
22650	6:17:30	75.0	70.0	178.8	48.5	8.68	13.8	
22665	6:17:45	75.5	70.0	178.8	48.5	8.68	13.9	
22680	6:18:00	75.2	70.0	179.0	49.1	8.68	13.9	
22695	6:18:15	74.8	70.0	178.8	49.1	8.69	13.8	
22710	6:18:30	74.9	70.0	178.9	48.0	8.67	13.9	
22725	6:18:45	74.9	70.0	178.7	48.0	8.67	13.7	
22740	6:19:00	75.0	70.0	178.7	48.5	8.67	13.7	
22755	6:19:15	75.2	69.9	178.7	48.5	8.68	13.7	
22770	6:19:30	74.8	70.0	178.8	48.5	8.68	13.8	
22785	6:19:45	74.6	70.0	178.7	48.5	8.68	13.8	
22800	6:20:00	74.9	70.0	178.7	48.5	8.68	13.8	
22815	6:20:15	75.0	70.0	178.8	48.5	8.68	13.8	
22830	6:20:30	74.8	70.0	179.0	48.5	8.67	13.8	
22845	6:20:45	74.9	70.1	178.8	48.5	8.67	13.7	
22860	6:21:00	74.9	70.1	178.8	48.0	8.67	13.7	
22875	6:21:15	75.0	70.0	178.9	48.0	8.67	13.7	
22890	6:21:30	75.2	70.0	178.9	48.5	8.67	13.7	
22905	6:21:45	75.1	70.1	178.9	48.5	8.67	13.7	
22920	6:22:00	75.3	70.1	178.6	48.5	8.67	13.8	
22935	6:22:15	75.0	70.1	178.7	48.0	8.67	13.8	
22950	6:22:30	74.9	70.0	178.8	48.0	8.67	13.7	
22965	6:22:45	75.3	70.1	178.9	48.0	8.67	13.7	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22980	6:23:00	75.4	70.1	179.0	48.0	8.67	13.6	
22995	6:23:15	75.6	70.1	178.8	48.0	8.67	13.7	
23010	6:23:30	75.7	70.1	179.0	47.5	8.67	13.7	
23025	6:23:45	76.0	70.1	178.7	47.5	8.67	13.7	
23040	6:24:00	76.5	70.1	178.8	47.5	8.67	13.7	
23055	6:24:15	76.0	70.1	179.0	47.5	8.67	13.6	
23070	6:24:30	75.7	70.1	178.8	47.5	8.67	13.7	
23085	6:24:45	75.3	70.1	178.8	48.0	8.67	13.7	
23100	6:25:00	75.6	70.1	178.9	48.0	8.67	13.7	
23115	6:25:15	76.1	70.1	178.9	48.0	8.67	13.6	
23130	6:25:30	77.0	70.2	178.9	48.0	8.66	13.6	
23145	6:25:45	76.4	70.1	178.7	48.0	8.67	13.6	
23160	6:26:00	75.7	70.1	178.9	48.0	8.67	13.6	
23175	6:26:15	75.2	70.1	179.0	48.0	8.68	13.6	
23190	6:26:30	74.8	70.1	179.0	48.5	8.69	13.7	
23205	6:26:45	75.8	70.2	179.2	49.6	8.71	13.8	
23220	6:27:00	76.3	70.1	179.6	50.1	8.73	14.0	
23235	6:27:15	76.4	70.1	179.4	51.2	8.74	14.1	
23250	6:27:30	75.5	70.1	179.5	51.2	8.75	14.3	
23265	6:27:45	74.8	70.0	179.6	51.2	8.75	14.3	
23280	6:28:00	76.3	70.1	179.6	51.7	8.75	14.4	
23295	6:28:15	76.4	70.0	179.6	51.7	8.76	14.4	
23310	6:28:30	75.6	70.0	179.8	52.3	8.76	14.5	
23325	6:28:45	76.0	70.0	179.7	52.8	8.78	14.6	
23340	6:29:00	75.4	70.0	179.7	53.3	8.79	14.7	
23355	6:29:15	74.9	69.9	179.7	53.3	8.79	14.8	
23370	6:29:30	75.2	70.0	179.9	53.3	8.79	14.8	
23385	6:29:45	75.1	70.1	180.0	53.3	8.79	14.8	
23400	6:30:00	75.3	70.1	179.9	53.3	8.79	14.8	Start Emissions
23415	6:30:15	74.8	70.1	180.0	53.3	8.79	14.8	
23430	6:30:30	74.6	70.2	180.2	53.5	8.80	14.8	
23445	6:30:45	74.8	70.1	180.1	53.9	8.81	14.9	
23460	6:31:00	74.9	70.1	179.9	54.4	8.81	15.0	1st Minute
23475	6:31:15	75.0	70.2	180.2	54.4	8.81	15.0	
23490	6:31:30	75.3	70.1	180.0	54.4	8.81	14.9	
23505	6:31:45	74.7	70.0	180.1	54.4	8.81	15.0	
23520	6:32:00	75.2	70.1	180.1	54.9	8.81	15.0	2nd Minute
23535	6:32:15	75.3	70.1	180.1	54.9	8.82	15.0	
23550	6:32:30	75.5	70.2	180.2	54.9	8.81	15.1	
23565	6:32:45	75.4	70.1	180.1	54.4	8.81	15.1	
23580	6:33:00	75.4	70.2	180.3	54.4	8.81	15.1	3rd Minute / EOT - High Fire - #2
23595	6:33:15	75.1	70.2	180.3	54.4	8.81	15.0	
23610	6:33:30	75.0	70.2	180.3	54.9	8.82	15.1	CO2 (Avg) % =
23625	6:33:45	74.8	70.2	180.2	55.5	8.83	15.2	8.81
23640	6:34:00	75.0	70.1	180.1	54.9	8.82	15.3	NOx (Avg) ppm =
23655	6:34:15	74.7	70.0	180.3	55.5	8.83	15.1	14.9
23670	6:34:30	75.3	70.1	180.0	54.9	8.82	15.3	CO (Max) ppm =

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
23685	6:34:45	75.5	70.1	180.2	54.9	8.81	15.3	54.9
23700	6:35:00	75.1	70.0	180.0	54.9	8.82	15.3	Ambient (Avg) F =
23715	6:35:15	75.0	70.0	180.1	54.9	8.82	15.3	75.2
23730	6:35:30	74.8	70.0	180.2	54.9	8.82	15.3	T_In (Avg) F =
23745	6:35:45	75.0	70.0	180.1	55.5	8.83	15.4	70.1
23760	6:36:00	75.0	70.0	180.3	55.5	8.82	15.4	T_Del (Avg) F =
23775	6:36:15	75.4	70.0	180.2	56.0	8.82	15.4	179.0
23790	6:36:30	75.6	70.0	180.1	56.0	8.83	15.5	
23805	6:36:45	75.5	69.9	180.0	55.5	8.82	15.4	
23820	6:37:00	75.2	70.0	179.9	54.9	8.81	15.4	
23835	6:37:15	74.6	69.9	180.0	54.9	8.81	15.4	
23850	6:37:30	75.4	69.9	180.0	54.4	8.80	15.3	
23865	6:37:45	75.6	69.9	179.9	54.4	8.80	15.1	
23880	6:38:00	75.1	69.9	180.0	54.4	8.81	15.1	
23895	6:38:15	75.4	69.9	180.0	54.4	8.80	15.2	
23910	6:38:30	75.5	70.0	179.9	53.9	8.80	15.2	
23925	6:38:45	75.7	69.9	179.7	53.9	8.80	15.1	
23940	6:39:00	75.4	69.9	179.7	53.3	8.79	15.1	
23955	6:39:15	75.0	69.9	180.0	53.3	8.79	15.1	
23970	6:39:30	75.3	69.9	174.5	53.9	8.80	15.0	
23985	6:39:45	75.6	69.9	159.5	32.9	8.59	15.1	
24000	6:40:00	75.5	69.9	163.1	16.6	8.13	12.1	
24015	6:40:15	76.1	69.9	168.8	13.4	8.05	9.0	
24030	6:40:30	75.9	70.0	170.2	13.4	8.00	8.4	
24045	6:40:45	75.7	69.9	170.3	14.5	8.00	8.3	
24060	6:41:00	75.5	70.0	170.0	16.1	7.99	8.0	
24075	6:41:15	75.2	70.0	169.8	17.1	8.00	7.9	
24090	6:41:30	75.2	70.1	169.5	18.7	7.98	7.8	
24105	6:41:45	75.2	70.2	169.1	18.2	7.97	7.7	
24120	6:42:00	75.6	70.4	168.7	17.7	7.98	7.6	
24135	6:42:15	75.6	70.5	168.5	17.7	7.97	7.5	
24150	6:42:30	75.3	70.6	168.3	17.7	7.98	7.4	
24165	6:42:45	75.7	70.6	168.2	17.7	7.97	7.4	
24180	6:43:00	75.6	70.7	168.2	17.7	7.97	7.3	
24195	6:43:15	75.5	70.7	168.1	17.7	7.96	7.3	
24210	6:43:30	75.7	70.8	169.8	17.7	7.96	7.1	
24225	6:43:45	75.7	70.8	172.4	17.1	7.97	7.1	
24240	6:44:00	75.9	70.8	174.6	16.6	7.98	7.1	
24255	6:44:15	76.0	70.8	175.4	17.1	7.98	7.1	
24270	6:44:30	75.9	70.9	175.9	17.1	7.97	7.1	
24285	6:44:45	75.9	70.8	176.2	17.1	7.97	7.0	
24300	6:45:00	76.3	70.9	176.3	17.1	7.97	6.9	
24315	6:45:15	76.7	71.0	176.4	17.7	7.97	6.9	
24330	6:45:30	76.6	70.9	176.5	18.2	7.97	6.8	
24345	6:45:45	77.0	70.9	176.1	18.2	7.96	6.8	
24360	6:46:00	76.7	71.0	175.5	18.2	7.96	6.7	
24375	6:46:15	76.6	71.0	175.4	18.2	7.97	6.7	
24390	6:46:30	76.2	71.0	176.0	18.2	7.97	6.7	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
24405	6:46:45	76.7	71.0	176.2	18.7	7.97	6.7	
24420	6:47:00	76.9	71.1	176.4	18.7	7.97	6.6	
24435	6:47:15	75.6	71.1	176.4	18.7	7.97	6.6	
24450	6:47:30	75.1	71.1	176.5	18.2	7.97	6.6	
24465	6:47:45	75.7	71.1	176.7	18.7	7.97	6.6	
24480	6:48:00	75.8	71.1	177.4	19.3	7.98	6.6	
24495	6:48:15	75.7	71.1	178.0	19.3	8.02	6.6	
24510	6:48:30	75.8	71.1	178.6	18.2	8.03	6.8	
24525	6:48:45	76.5	71.1	178.6	17.7	8.03	6.9	
24540	6:49:00	76.0	71.1	178.7	17.7	8.02	6.8	Start Mid Fire Equilibrium - #2
24555	6:49:15	75.7	71.2	178.7	18.2	8.02	6.7	
24570	6:49:30	75.5	71.2	178.8	18.7	8.02	6.7	
24585	6:49:45	75.0	71.2	178.7	18.2	8.03	6.7	
24600	6:50:00	75.4	71.2	178.8	18.2	8.02	6.7	
24615	6:50:15	74.9	71.2	179.0	17.7	8.03	6.7	
24630	6:50:30	75.2	71.2	179.1	18.7	8.03	6.8	
24645	6:50:45	75.4	71.2	179.6	19.3	8.03	6.8	
24660	6:51:00	75.1	71.3	179.2	18.7	8.05	6.9	
24675	6:51:15	74.6	71.4	179.0	18.7	8.02	7.0	
24690	6:51:30	75.5	71.4	178.8	19.3	8.02	6.6	
24705	6:51:45	76.6	71.4	178.7	18.7	8.02	6.7	
24720	6:52:00	76.1	71.3	178.8	18.7	8.02	6.7	
24735	6:52:15	75.2	71.4	179.3	18.2	8.02	6.6	
24750	6:52:30	74.6	71.3	179.7	18.7	8.04	6.7	
24765	6:52:45	75.9	71.3	180.1	19.3	8.05	6.7	
24780	6:53:00	76.0	71.3	180.4	18.7	8.05	6.8	
24795	6:53:15	75.8	71.3	180.4	18.7	8.05	6.8	
24810	6:53:30	75.7	71.3	180.2	18.7	8.04	6.8	
24825	6:53:45	76.2	71.2	180.3	18.2	8.04	6.7	
24840	6:54:00	76.2	71.3	180.1	18.2	8.04	6.7	End Mid Fire Equilibrium - #2
24855	6:54:15	76.6	71.3	180.2	18.2	8.04	6.7	
24870	6:54:30	76.1	71.3	179.9	18.2	8.04	6.8	
24885	6:54:45	75.5	71.2	180.2	18.2	8.03	6.8	
24900	6:55:00	74.7	71.3	180.2	18.2	8.05	6.7	Start Test - Mid Fire - #2
24915	6:55:15	74.6	71.3	179.9	18.2	8.03	6.8	
24930	6:55:30	74.6	71.3	179.8	19.3	8.02	6.6	
24945	6:55:45	74.6	71.3	179.9	18.2	8.02	6.6	
24960	6:56:00	75.0	71.2	179.8	19.3	8.02	6.6	
24975	6:56:15	75.5	71.2	179.8	19.8	8.01	6.6	
24990	6:56:30	75.5	71.3	179.6	18.2	8.01	6.6	
25005	6:56:45	75.4	71.3	179.1	19.3	8.01	6.6	
25020	6:57:00	75.8	71.3	179.0	18.7	8.00	6.6	
25035	6:57:15	75.9	71.3	178.8	19.3	7.98	6.6	
25050	6:57:30	76.0	71.2	178.7	19.3	7.98	6.5	
25065	6:57:45	75.7	71.2	178.8	18.2	8.00	6.6	
25080	6:58:00	75.6	71.2	178.8	19.8	7.99	6.6	
25095	6:58:15	75.7	71.2	178.8	19.8	7.99	6.5	
25110	6:58:30	75.4	71.3	179.1	20.3	8.00	6.5	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
25125	6:58:45	75.2	71.3	179.3	20.3	7.99	6.5	
25140	6:59:00	75.8	71.3	179.5	19.8	8.01	6.6	
25155	6:59:15	75.5	71.3	179.7	18.7	7.99	6.6	
25170	6:59:30	75.6	71.4	179.8	18.7	7.99	6.6	
25185	6:59:45	75.5	71.3	179.4	18.7	7.99	6.6	
25200	7:00:00	75.5	71.4	179.2	18.7	7.97	6.5	
25215	7:00:15	75.7	71.3	178.8	19.8	7.96	6.4	
25230	7:00:30	75.7	71.3	178.4	20.3	7.95	6.4	
25245	7:00:45	75.7	71.3	178.5	19.3	7.95	6.4	
25260	7:01:00	75.8	71.4	178.7	20.3	7.96	6.4	
25275	7:01:15	75.5	71.4	178.9	20.9	7.96	6.4	
25290	7:01:30	75.4	71.5	178.5	19.8	7.97	6.4	
25305	7:01:45	75.5	71.5	178.5	20.3	7.95	6.3	
25320	7:02:00	75.4	71.5	178.6	20.9	7.94	6.3	
25335	7:02:15	75.5	71.5	178.8	20.3	7.95	6.3	
25350	7:02:30	75.4	71.5	179.1	20.9	7.96	6.3	
25365	7:02:45	75.2	71.4	179.3	19.8	7.98	6.3	
25380	7:03:00	75.0	71.5	179.4	19.8	7.97	6.4	
25395	7:03:15	75.7	71.4	179.3	20.9	7.97	6.4	
25410	7:03:30	75.8	71.4	179.5	19.8	7.97	6.3	
25425	7:03:45	75.4	71.4	179.7	19.8	7.97	6.4	
25440	7:04:00	74.9	71.4	179.4	19.3	7.99	6.5	
25455	7:04:15	75.4	71.4	179.0	20.3	7.97	6.5	
25470	7:04:30	75.5	71.4	178.8	19.3	7.96	6.4	
25485	7:04:45	75.4	71.4	178.9	19.8	7.95	6.3	
25500	7:05:00	76.1	71.4	178.7	19.8	7.96	6.3	
25515	7:05:15	76.7	71.3	178.6	21.4	7.94	6.3	
25530	7:05:30	77.2	71.4	178.6	20.9	7.94	6.2	
25545	7:05:45	77.1	71.4	178.9	21.4	7.96	6.2	
25560	7:06:00	77.1	71.3	179.0	20.3	7.96	6.2	
25575	7:06:15	77.0	71.4	179.4	20.9	7.97	6.3	
25590	7:06:30	77.4	71.3	179.2	20.9	7.96	6.3	
25605	7:06:45	77.4	71.3	179.6	20.3	7.96	6.3	
25620	7:07:00	77.2	71.3	179.2	20.3	7.97	6.3	
25635	7:07:15	77.0	71.3	179.6	19.8	7.97	6.3	
25650	7:07:30	77.1	71.3	179.6	19.8	7.96	6.3	
25665	7:07:45	76.9	71.4	179.6	21.4	7.96	6.3	
25680	7:08:00	76.5	71.4	179.4	21.9	7.96	6.3	
25695	7:08:15	75.5	71.3	179.2	21.4	7.96	6.3	
25710	7:08:30	75.5	71.4	179.3	20.9	7.96	6.2	
25725	7:08:45	75.2	71.4	179.1	21.4	7.96	6.2	
25740	7:09:00	75.0	71.4	179.0	20.9	7.96	6.2	
25755	7:09:15	74.5	71.5	179.4	20.3	7.96	6.2	
25770	7:09:30	74.7	71.5	179.2	21.4	7.97	6.2	
25785	7:09:45	74.5	71.5	179.5	19.8	7.97	6.2	
25800	7:10:00	74.8	71.5	179.6	20.9	7.97	6.2	
25815	7:10:15	74.5	71.5	179.4	20.9	7.96	6.2	
25830	7:10:30	74.7	71.5	179.4	20.3	7.97	6.2	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
25845	7:10:45	75.6	71.5	179.4	20.9	7.97	6.2	
25860	7:11:00	76.1	71.5	179.4	19.8	7.96	6.3	
25875	7:11:15	76.7	71.4	179.4	19.8	7.97	6.3	
25890	7:11:30	76.7	71.5	179.1	19.3	7.97	6.3	
25905	7:11:45	76.5	71.5	178.8	20.3	7.96	6.2	
25920	7:12:00	75.7	71.5	178.7	20.9	7.95	6.1	
25935	7:12:15	75.6	71.4	178.6	20.9	7.95	6.1	
25950	7:12:30	76.1	71.5	178.6	19.8	7.94	6.1	
25965	7:12:45	75.4	71.4	178.6	20.3	7.94	6.1	
25980	7:13:00	75.4	71.4	178.7	20.3	7.95	6.1	
25995	7:13:15	75.4	71.4	178.5	21.4	7.94	6.1	
26010	7:13:30	76.4	71.5	178.5	21.4	7.94	6.1	
26025	7:13:45	76.9	71.5	178.8	20.9	7.96	6.1	
26040	7:14:00	76.8	71.5	178.6	21.4	7.95	6.0	
26055	7:14:15	76.4	71.5	178.7	21.4	7.95	6.1	
26070	7:14:30	75.7	71.5	178.7	20.3	7.95	6.2	
26085	7:14:45	76.4	71.5	178.8	20.9	7.95	6.2	
26100	7:15:00	76.4	71.6	179.2	19.8	7.97	6.2	
26115	7:15:15	76.9	71.6	179.3	20.3	7.97	6.2	
26130	7:15:30	75.8	71.5	179.6	21.4	7.98	6.2	
26145	7:15:45	76.1	71.6	179.7	20.9	7.97	6.3	
26160	7:16:00	76.5	71.6	180.1	19.8	7.99	6.3	
26175	7:16:15	76.9	71.6	180.0	19.8	7.99	6.3	
26190	7:16:30	76.2	71.5	179.8	20.9	7.98	6.3	
26205	7:16:45	76.2	71.6	179.9	20.3	7.98	6.2	
26220	7:17:00	76.3	71.5	180.2	20.3	7.99	6.3	
26235	7:17:15	76.0	71.6	179.8	20.9	7.99	6.3	
26250	7:17:30	76.1	71.6	179.1	21.4	7.96	6.3	
26265	7:17:45	75.1	71.5	178.8	20.3	7.95	6.2	
26280	7:18:00	76.1	71.6	179.0	20.9	7.95	6.1	
26295	7:18:15	75.7	71.5	178.8	21.4	7.96	6.1	
26310	7:18:30	75.1	71.5	178.5	20.9	7.96	6.2	
26325	7:18:45	74.4	71.6	178.5	20.3	7.96	6.2	
26340	7:19:00	75.2	71.6	178.8	21.4	7.95	6.1	
26355	7:19:15	76.1	71.6	179.0	20.3	7.97	6.1	
26370	7:19:30	75.4	71.6	179.2	20.9	7.97	6.2	
26385	7:19:45	75.2	71.5	179.3	20.3	7.96	6.2	
26400	7:20:00	75.2	71.6	179.6	20.9	7.96	6.2	
26415	7:20:15	75.7	71.6	179.3	20.9	7.97	6.2	
26430	7:20:30	75.9	71.5	179.4	19.8	7.96	6.3	
26445	7:20:45	75.8	71.5	179.4	20.3	7.97	6.3	
26460	7:21:00	75.9	71.5	179.5	19.8	7.97	6.2	
26475	7:21:15	75.0	71.5	179.3	19.8	7.97	6.2	
26490	7:21:30	75.9	71.5	179.4	19.8	7.97	6.2	
26505	7:21:45	75.4	71.5	179.5	20.9	7.97	6.2	
26520	7:22:00	75.1	71.5	179.5	20.3	7.97	6.2	Start Emissions
26535	7:22:15	75.0	71.5	179.7	19.8	7.97	6.3	
26550	7:22:30	74.5	71.5	179.6	19.8	7.97	6.2	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
26565	7:22:45	74.4	71.6	179.7	20.3	7.98	6.2	
26580	7:23:00	74.4	71.5	179.6	19.8	7.98	6.2	1st Minute
26595	7:23:15	74.6	71.5	179.7	20.3	7.97	6.2	
26610	7:23:30	74.1	71.6	179.8	19.8	7.97	6.2	
26625	7:23:45	74.2	71.6	179.9	20.3	7.99	6.3	
26640	7:24:00	75.2	71.5	180.0	19.3	7.99	6.3	2nd Minute
26655	7:24:15	75.2	71.6	180.0	19.8	7.99	6.4	
26670	7:24:30	74.7	71.6	180.1	19.3	7.98	6.3	
26685	7:24:45	74.6	71.6	180.0	19.8	7.98	6.3	
26700	7:25:00	75.0	71.7	180.2	19.8	7.99	6.3	3rd Minute / EOT - Mid Fire - #2
26715	7:25:15	74.9	71.7	180.1	19.8	7.98	6.3	
26730	7:25:30	75.6	71.6	180.1	19.3	7.98	6.2	CO2 (Avg) % = 7.98
26745	7:25:45	75.2	71.7	180.0	19.8	7.99	6.3	NOx (Avg) ppm = 6.3
26760	7:26:00	74.7	71.7	179.9	19.3	7.99	6.3	CO (Max) ppm = 21.9
26775	7:26:15	74.6	71.6	179.9	19.3	7.99	6.3	Ambient (Avg) F = 75.6
26790	7:26:30	75.4	71.7	179.8	19.3	7.99	6.4	T_In (Avg) F = 71.4
26805	7:26:45	75.2	71.6	179.5	19.3	7.98	6.3	T_Del (Avg) F = 179.2
26820	7:27:00	75.1	71.6	179.5	19.3	7.97	6.2	
26835	7:27:15	75.2	71.7	179.8	19.8	7.99	6.2	
26850	7:27:30	75.3	71.7	179.9	19.8	7.98	6.2	
26865	7:27:45	75.0	71.6	179.7	20.3	7.99	6.3	
26880	7:28:00	74.9	71.5	179.9	19.8	7.98	6.3	
26895	7:28:15	75.4	71.6	179.9	19.8	7.99	6.2	
26910	7:28:30	75.4	71.7	180.3	19.3	7.98	6.3	
26925	7:28:45	76.0	71.6	179.7	20.3	8.00	6.4	
26940	7:29:00	76.2	71.6	179.3	19.8	7.97	6.4	
26955	7:29:15	74.9	71.6	179.2	20.3	7.97	6.2	
26970	7:29:30	75.1	71.6	179.1	19.3	7.98	6.2	
26985	7:29:45	75.3	71.5	178.9	20.3	7.97	6.2	
27000	7:30:00	75.7	71.5	179.6	19.8	7.97	6.2	
27015	7:30:15	75.9	71.6	179.3	19.8	8.01	6.2	
27030	7:30:30	75.4	71.6	171.3	21.9	7.98	6.5	
27045	7:30:45	75.6	71.6	140.5	2.2	0.67	5.8	
27060	7:31:00	76.2	71.6	114.4	0.0	0.05	3.0	
27075	7:31:15	76.5	71.6	99.2	0.0	0.02	0.2	
27090	7:31:30	76.5	71.6	90.7	0.0	0.01	0.1	
27105	7:31:45	76.6	71.6	85.6	0.0	0.01	0.1	
27120	7:32:00	76.9	71.6	82.4	0.0	0.01	0.1	
27135	7:32:15	76.8	71.5	80.5	0.0	0.00	0.1	
27150	7:32:30	76.7	71.5	79.3	0.0	0.00	0.1	
27165	7:32:45	75.3	71.5	78.4	0.0	0.00	0.1	
27180	7:33:00	75.7	71.6	77.8	0.0	0.00	0.1	Start Zero OUT
27195	7:33:15	76.2	71.5	77.2	0.0	0.00	0.0	
27210	7:33:30	76.6	71.5	76.9	0.0	0.00	0.0	
27225	7:33:45	76.7	71.5	76.5	0.0	0.00	0.0	
27240	7:34:00	76.4	71.5	76.2	0.0	0.00	0.0	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
27255	7:34:15	76.7	71.5	76.1	0.0	0.00	0.0	
27270	7:34:30	75.8	71.5	76.9	0.0	0.00	0.0	
27285	7:34:45	76.3	71.6	77.7	0.0	0.00	0.0	
27300	7:35:00	75.5	71.6	79.3	0.0	0.00	0.0	
27315	7:35:15	74.8	71.6	80.1	0.0	0.00	0.0	
27330	7:35:30	74.0	71.6	80.6	0.0	0.00	0.0	
27345	7:35:45	74.2	71.7	80.9	0.0	0.00	0.0	
27360	7:36:00	74.2	71.6	81.0	0.0	0.00	0.0	
27375	7:36:15	74.2	71.7	81.0	0.0	0.00	0.0	
27390	7:36:30	74.4	71.7	80.9	0.0	0.00	0.0	
27405	7:36:45	74.6	71.7	80.8	0.0	0.00	0.0	
27420	7:37:00	75.4	71.7	80.8	0.0	0.00	0.0	
27435	7:37:15	75.7	71.7	80.7	0.0	0.00	0.0	
27450	7:37:30	75.8	71.8	80.7	0.0	0.00	0.0	
27465	7:37:45	75.6	71.8	80.4	0.0	0.00	0.0	
27480	7:38:00	76.1	71.7	80.4	0.0	0.00	0.0	Analyzer Zero OUT
27495	7:38:15	75.8	71.8	80.4	0.0	0.00	0.0	
27510	7:38:30	74.8	71.8	80.4	0.0	0.00	0.0	
27525	7:38:45	74.5	71.8	80.3	0.0	0.00	0.0	
27540	7:39:00	74.4	71.9	80.2	0.0	0.00	0.0	
27555	7:39:15	74.3	71.9	80.2	151.2	0.14	0.0	
27570	7:39:30	74.1	71.9	80.2	841.9	8.78	0.0	
27585	7:39:45	74.0	71.9	80.1	949.9	9.37	12.5	
27600	7:40:00	73.8	71.8	80.0	960.3	9.46	25.3	
27615	7:40:15	73.8	71.9	80.0	964.0	9.48	25.8	
27630	7:40:30	74.7	71.8	80.0	965.4	9.48	26.3	
27645	7:40:45	75.1	71.8	80.0	965.7	9.49	26.4	
27660	7:41:00	75.1	71.8	80.0	965.6	9.49	26.5	Start High Span OUT
27675	7:41:15	74.6	71.7	79.9	965.7	9.49	26.5	
27690	7:41:30	75.0	71.7	79.9	965.6	9.49	26.5	
27705	7:41:45	75.1	71.7	79.9	965.7	9.49	26.6	
27720	7:42:00	75.3	71.7	79.9	966.2	9.49	26.6	
27735	7:42:15	75.3	71.7	79.9	966.2	9.49	26.6	
27750	7:42:30	74.8	71.7	79.9	966.7	9.50	26.6	
27765	7:42:45	74.5	71.8	79.9	966.2	9.49	26.6	
27780	7:43:00	74.5	71.8	79.9	966.7	9.49	26.6	
27795	7:43:15	74.5	71.8	80.0	966.7	9.50	26.6	
27810	7:43:30	74.5	71.9	79.9	966.7	9.50	26.6	
27825	7:43:45	74.7	71.9	80.0	966.2	9.49	26.7	
27840	7:44:00	74.6	71.9	80.0	966.7	9.49	26.7	
27855	7:44:15	75.5	71.9	80.0	966.7	9.50	26.7	
27870	7:44:30	75.5	71.9	80.0	966.7	9.50	26.7	
27885	7:44:45	75.0	71.8	79.9	966.7	9.50	26.7	
27900	7:45:00	75.0	71.8	79.9	966.7	9.50	26.7	
27915	7:45:15	75.2	71.9	79.9	967.2	9.50	26.7	
27930	7:45:30	75.4	71.9	79.9	967.2	9.50	26.7	
27945	7:45:45	75.3	71.9	79.9	967.8	9.50	26.7	
27960	7:46:00	75.4	71.8	79.8	967.8	9.50	26.7	Analyzer High Span OUT

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
27975	7:46:15	75.6	71.8	79.8	967.2	9.50	26.7	
27990	7:46:30	75.2	71.8	79.8	952.7	9.50	26.4	
28005	7:46:45	75.0	71.9	79.8	577.4	5.42	26.5	
28020	7:47:00	75.6	71.9	79.8	505.2	5.05	21.5	
28035	7:47:15	75.5	71.9	79.8	498.8	5.02	14.4	
28050	7:47:30	75.8	71.9	79.9	496.7	5.02	14.5	
28065	7:47:45	75.6	71.9	79.8	496.2	5.02	14.5	
28080	7:48:00	75.6	71.9	79.7	495.6	5.01	14.5	
28095	7:48:15	75.7	71.9	79.7	495.6	5.01	14.5	
28110	7:48:30	75.1	71.9	79.7	495.6	5.01	14.5	
28125	7:48:45	74.9	71.9	79.7	495.6	5.01	14.5	
28140	7:49:00	74.8	71.9	79.7	495.6	5.01	14.5	Start Mid Span OUT
28155	7:49:15	74.8	71.9	79.7	495.6	5.01	14.5	
28170	7:49:30	75.3	72.0	79.7	495.6	5.01	14.5	
28185	7:49:45	75.3	72.0	79.7	495.6	5.01	14.5	
28200	7:50:00	75.4	72.1	79.7	495.6	5.01	14.5	
28215	7:50:15	75.4	72.0	79.6	495.6	5.01	14.5	
28230	7:50:30	75.5	72.0	79.6	495.6	5.02	14.5	
28245	7:50:45	75.5	72.0	79.6	495.6	5.01	14.5	
28260	7:51:00	75.5	72.0	79.6	495.6	5.01	14.5	
28275	7:51:15	75.4	72.0	79.5	495.6	5.01	14.5	
28290	7:51:30	75.2	72.0	79.5	495.6	5.01	14.5	
28305	7:51:45	75.3	72.0	79.5	495.6	5.01	14.5	
28320	7:52:00	75.4	72.1	79.5	495.6	5.01	14.5	
28335	7:52:15	75.2	72.0	79.5	495.6	5.01	14.5	
28350	7:52:30	75.4	72.1	79.4	495.6	5.01	14.5	
28365	7:52:45	75.5	72.1	79.4	495.6	5.01	14.5	
28380	7:53:00	75.7	72.1	79.4	495.6	5.01	14.5	
28395	7:53:15	76.1	72.1	79.4	495.6	5.01	14.5	
28410	7:53:30	75.8	72.1	79.4	495.6	5.01	14.5	
28425	7:53:45	75.9	72.1	79.3	495.6	5.01	14.5	
28440	7:54:00	75.8	72.1	79.3	495.6	5.01	14.5	Analyzer Mid Span OUT
28455	7:54:15	75.7	72.1	79.3	495.6	5.01	14.5	
28470	7:54:30	75.6	72.2	79.3	495.6	5.01	14.5	
28485	7:54:45	75.9	72.1	79.3	495.6	5.01	14.5	
28500	7:55:00	76.3	72.2	79.3	495.1	5.01	14.4	
28515	7:55:15	75.9	72.3	79.3	392.5	4.50	14.0	
28530	7:55:30	75.9	72.3	79.3	252.5	2.63	14.7	
28545	7:55:45	75.9	72.3	79.3	241.2	2.59	10.6	
28560	7:56:00	75.9	72.3	79.2	238.0	2.58	6.5	
28575	7:56:15	76.0	72.3	79.3	237.0	2.58	6.7	
28590	7:56:30	75.9	72.3	79.2	237.0	2.58	6.8	
28605	7:56:45	75.9	72.2	79.2	237.0	2.58	6.9	
28620	7:57:00	75.9	72.3	79.1	237.0	2.58	6.9	Start Low Span OUT
28635	7:57:15	75.9	72.3	79.0	236.4	2.58	6.9	
28650	7:57:30	75.9	72.3	79.1	237.0	2.58	6.9	
28665	7:57:45	75.8	72.3	79.1	236.4	2.58	6.9	
28680	7:58:00	75.9	72.3	79.0	237.0	2.58	6.9	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
28695	7:58:15	75.8	72.3	79.0	237.0	2.58	6.9	
28710	7:58:30	76.0	72.4	79.0	237.0	2.58	6.9	
28725	7:58:45	75.9	72.4	79.0	237.0	2.58	6.9	
28740	7:59:00	75.9	72.3	79.0	237.0	2.58	6.9	
28755	7:59:15	75.6	72.4	79.0	237.0	2.58	6.9	
28770	7:59:30	75.5	72.4	79.0	237.0	2.58	6.9	
28785	7:59:45	75.8	72.5	79.0	237.0	2.58	6.9	
28800	8:00:00	76.0	72.5	79.0	237.0	2.58	6.9	
28815	8:00:15	76.2	72.6	79.0	237.0	2.58	6.9	
28830	8:00:30	76.2	72.6	79.0	237.0	2.58	6.9	
28845	8:00:45	76.0	72.5	78.9	237.0	2.58	6.9	
28860	8:01:00	75.9	72.6	79.0	237.0	2.58	6.9	
28875	8:01:15	75.8	72.6	79.0	237.0	2.58	6.9	
28890	8:01:30	75.6	72.7	78.9	237.0	2.58	6.9	
28905	8:01:45	75.4	72.6	78.9	237.0	2.58	6.9	
28920	8:02:00	75.4	72.7	78.9	237.0	2.58	6.9	Analyzer Low Span OUT
28935	8:02:15	75.3	72.7	78.9	237.0	2.58	6.9	
28950	8:02:30	75.3	72.7	78.9	237.0	2.58	6.9	
28965	8:02:45	75.3	72.8	78.9	237.0	2.58	6.9	
28980	8:03:00	75.3	72.8	78.9	237.0	2.58	6.9	
28995	8:03:15	75.8	72.8	78.9	237.0	2.58	6.9	
29010	8:03:30	75.8	72.8	78.8	236.4	2.58	6.8	
29025	8:03:45	75.7	72.8	78.8	231.4	2.59	6.9	
29040	8:04:00	75.6	72.7	78.8	37.4	0.35	5.6	
29055	8:04:15	76.0	72.8	78.8	0.0	0.03	1.8	
29070	8:04:30	76.0	72.8	78.7	0.0	0.00	1.3	
29085	8:04:45	75.3	72.7	78.6	0.0	0.00	0.7	
29100	8:05:00	75.0	72.8	78.6	0.0	0.00	0.7	Start Zero Bias OUT
29115	8:05:15	75.1	72.8	78.6	0.0	0.00	0.7	
29130	8:05:30	75.2	72.8	78.7	0.0	0.00	0.7	
29145	8:05:45	75.8	72.9	78.7	0.0	0.00	0.7	
29160	8:06:00	75.9	72.9	78.7	0.0	0.00	0.6	
29175	8:06:15	76.1	72.9	78.6	0.0	0.00	0.6	
29190	8:06:30	75.8	72.9	78.7	0.0	0.00	0.6	
29205	8:06:45	75.9	72.9	78.6	0.0	0.00	0.6	
29220	8:07:00	75.9	72.9	78.6	0.0	0.00	0.6	
29235	8:07:15	76.0	72.9	78.6	0.0	0.00	0.5	
29250	8:07:30	75.9	73.0	78.6	0.0	0.00	0.5	
29265	8:07:45	76.0	72.9	78.6	0.0	0.00	0.5	
29280	8:08:00	76.0	73.0	78.6	0.0	0.00	0.5	
29295	8:08:15	76.0	73.0	78.5	0.0	0.00	0.4	
29310	8:08:30	75.9	73.0	78.5	0.0	0.00	0.4	
29325	8:08:45	75.8	73.0	78.4	0.0	0.00	0.4	
29340	8:09:00	75.6	73.0	78.5	0.0	0.00	0.4	
29355	8:09:15	75.6	73.0	78.5	0.0	0.00	0.4	
29370	8:09:30	75.6	73.0	78.5	0.0	0.00	0.3	
29385	8:09:45	75.7	73.1	78.4	0.0	0.00	0.3	
29400	8:10:00	75.8	73.0	78.4	0.0	0.00	0.3	System Zero OUT

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
29415	8:10:15	75.7	72.9	78.4	0.0	0.00	0.3	
29430	8:10:30	75.6	73.0	78.3	0.0	0.00	0.3	
29445	8:10:45	75.3	73.0	78.3	0.0	0.00	0.3	
29460	8:11:00	75.6	73.0	78.3	28.8	0.05	0.3	
29475	8:11:15	75.8	73.0	78.3	398.3	4.53	0.3	
29490	8:11:30	75.8	73.0	78.3	473.3	4.89	0.3	
29505	8:11:45	75.7	73.0	78.3	481.8	4.96	0.3	
29520	8:12:00	75.7	73.0	78.2	485.0	4.97	0.3	
29535	8:12:15	75.7	73.0	78.1	486.1	4.98	0.2	
29550	8:12:30	75.7	73.0	78.2	486.6	4.99	0.2	
29565	8:12:45	75.5	73.0	78.2	487.1	4.99	0.2	
29580	8:13:00	75.5	73.0	78.2	486.6	4.99	0.2	Start Mid CO/CO2 Bias OUT
29595	8:13:15	75.5	73.1	78.2	487.1	4.99	0.2	
29610	8:13:30	75.4	73.0	78.1	487.1	5.00	0.2	
29625	8:13:45	75.3	73.0	78.1	487.1	5.00	0.2	
29640	8:14:00	75.5	73.1	78.1	487.1	5.00	0.2	
29655	8:14:15	75.6	73.1	78.1	487.1	5.00	0.2	
29670	8:14:30	75.5	73.1	78.0	487.1	5.00	0.2	
29685	8:14:45	75.6	73.1	78.0	487.1	5.00	0.2	
29700	8:15:00	75.4	73.1	78.0	487.7	5.00	0.2	
29715	8:15:15	75.3	73.1	78.0	487.7	5.00	0.2	
29730	8:15:30	75.3	73.2	78.0	487.7	5.00	0.2	
29745	8:15:45	75.4	73.2	78.0	487.7	5.00	0.2	
29760	8:16:00	75.7	73.2	78.0	487.1	5.00	0.2	
29775	8:16:15	75.7	73.2	78.0	482.9	4.95	0.2	
29790	8:16:30	75.5	73.3	78.0	478.6	4.90	0.1	
29805	8:16:45	75.4	73.3	78.0	475.9	4.87	0.1	
29820	8:17:00	75.4	73.3	77.9	473.8	4.85	0.1	
29835	8:17:15	75.4	73.3	78.0	472.2	4.84	0.1	
29850	8:17:30	75.3	73.4	78.0	471.2	4.83	0.1	
29865	8:17:45	75.3	73.4	78.1	470.6	4.82	0.1	
29880	8:18:00	75.3	73.5	78.0	469.6	4.82	0.1	System Mid CO/CO2 OUT
29895	8:18:15	75.3	73.5	78.0	468.5	4.80	0.1	
29910	8:18:30	75.3	73.6	78.0	467.4	4.79	0.1	
29925	8:18:45	75.3	73.5	78.0	466.4	4.78	0.1	
29940	8:19:00	75.4	73.6	78.1	464.8	4.77	0.1	
29955	8:19:15	75.3	73.5	78.0	463.7	4.76	0.1	
29970	8:19:30	75.3	73.6	78.0	463.2	4.75	0.1	
29985	8:19:45	75.9	73.6	78.0	462.1	4.74	0.1	
30000	8:20:00	75.6	73.6	78.0	461.0	4.73	0.1	
30015	8:20:15	75.3	73.6	77.9	161.7	1.58	0.1	
30030	8:20:30	75.7	73.5	77.8	162.4	1.73	0.1	
30045	8:20:45	75.8	73.5	77.9	222.6	2.52	0.1	
30060	8:21:00	75.7	73.5	77.7	229.7	2.57	0.1	Start Low CO/CO2 Bias OUT
30075	8:21:15	75.5	73.5	77.8	232.2	2.58	0.1	
30090	8:21:30	75.4	73.5	77.7	232.7	2.58	0.1	
30105	8:21:45	75.4	73.5	77.8	232.7	2.58	0.1	
30120	8:22:00	75.3	73.5	77.8	232.7	2.58	0.1	

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
30135	8:22:15	75.2	73.5	77.7	232.7	2.58	0.1	
30150	8:22:30	75.3	73.6	77.8	232.7	2.58	0.1	
30165	8:22:45	75.3	73.6	77.8	232.7	2.58	0.1	
30180	8:23:00	75.4	73.6	77.8	232.7	2.58	0.1	
30195	8:23:15	75.6	73.7	77.8	232.7	2.58	0.1	
30210	8:23:30	76.0	73.7	77.8	232.7	2.58	0.1	
30225	8:23:45	76.0	73.7	77.7	232.7	2.58	0.1	
30240	8:24:00	75.8	73.6	77.8	232.7	2.58	0.1	
30255	8:24:15	75.6	73.6	77.7	232.7	2.58	0.1	
30270	8:24:30	75.6	73.7	77.6	232.7	2.58	0.1	
30285	8:24:45	76.0	73.7	77.7	232.7	2.58	0.1	
30300	8:25:00	76.2	73.7	77.6	232.7	2.58	0.1	
30315	8:25:15	76.2	73.7	77.6	232.7	2.58	0.1	
30330	8:25:30	76.2	73.6	77.6	232.7	2.58	0.1	
30345	8:25:45	76.3	73.7	77.7	232.2	2.58	0.1	
30360	8:26:00	76.2	73.7	77.6	232.2	2.58	0.1	System Low CO/CO2 OUT
30375	8:26:15	76.0	73.6	77.5	232.2	2.58	0.1	
30390	8:26:30	76.3	73.6	77.6	232.2	2.58	0.1	
30405	8:26:45	75.7	73.6	77.6	232.2	2.58	0.1	
30420	8:27:00	75.4	73.6	77.5	121.5	1.74	0.1	
30435	8:27:15	75.8	73.6	77.5	9.7	0.14	0.1	
30450	8:27:30	75.9	73.7	77.5	0.0	0.03	0.1	
30465	8:27:45	76.0	73.7	77.5	0.0	0.01	6.9	
30480	8:28:00	75.8	73.6	77.4	0.0	0.01	13.8	
30495	8:28:15	76.0	73.6	77.4	0.0	0.01	14.0	
30510	8:28:30	75.9	73.7	77.4	0.0	0.01	14.1	
30525	8:28:45	75.9	73.6	77.4	0.0	0.01	14.2	
30540	8:29:00	75.7	73.6	77.4	0.0	0.01	14.2	Start Mid NOx Bias OUT
30555	8:29:15	75.9	73.6	77.3	0.0	0.01	14.2	
30570	8:29:30	76.1	73.7	77.3	0.0	0.01	14.2	
30585	8:29:45	76.3	73.7	77.3	0.0	0.01	14.2	
30600	8:30:00	76.2	73.7	77.3	0.0	0.01	14.2	
30615	8:30:15	76.1	73.7	77.3	0.0	0.02	14.2	
30630	8:30:30	75.9	73.7	77.3	0.0	0.02	14.2	
30645	8:30:45	75.8	73.7	77.2	0.0	0.02	14.2	
30660	8:31:00	75.8	73.7	77.3	0.0	0.02	14.2	
30675	8:31:15	75.6	73.7	77.2	0.0	0.02	14.2	
30690	8:31:30	75.6	73.7	77.3	0.0	0.02	14.2	
30705	8:31:45	75.6	73.7	77.2	0.0	0.02	14.2	
30720	8:32:00	75.7	73.7	77.2	0.0	0.02	14.2	
30735	8:32:15	75.5	73.7	77.2	0.0	0.02	14.2	
30750	8:32:30	75.5	73.8	77.2	0.0	0.03	14.2	
30765	8:32:45	75.5	73.7	77.2	0.0	0.03	14.2	
30780	8:33:00	75.7	73.7	77.1	0.0	0.03	14.2	
30795	8:33:15	75.6	73.8	77.1	0.0	0.03	14.2	
30810	8:33:30	75.7	73.7	77.0	0.0	0.03	14.2	
30825	8:33:45	75.8	73.7	77.1	0.0	0.03	14.2	
30840	8:34:00	75.8	73.7	77.0	0.0	0.03	14.2	System Mid NOx OUT

Manufacturer: RIELLO

Date: July 8, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
30855	8:34:15	75.7	73.8	77.0	0.0	0.03	14.2	
30870	8:34:30	75.9	73.7	77.1	0.0	0.04	14.2	
30885	8:34:45	75.6	73.7	77.0	0.0	0.04	14.2	
30900	8:35:00	75.4	73.7	77.0	0.0	0.04	14.2	
30915	8:35:15	75.1	73.8	77.1	0.0	0.04	14.2	
30930	8:35:30	75.6	73.8	77.0	0.0	0.04	13.5	
30945	8:35:45	75.9	73.8	77.1	0.0	0.04	7.7	
30960	8:36:00	76.1	73.9	77.1	0.0	0.04	3.2	
30975	8:36:15	75.7	73.8	77.0	0.0	0.05	6.6	
30990	8:36:30	75.6	73.8	77.0	0.0	0.05	6.7	
31005	8:36:45	75.8	73.8	77.0	0.0	0.05	6.8	
31020	8:37:00	75.8	73.8	77.0	0.0	0.05	6.8	Start Low NOx Bias OUT
31035	8:37:15	75.9	73.8	76.9	0.0	0.05	6.8	
31050	8:37:30	76.0	73.8	76.9	0.0	0.05	6.8	
31065	8:37:45	75.9	73.8	76.9	0.0	0.05	6.8	
31080	8:38:00	75.9	73.7	76.8	0.0	0.06	6.8	
31095	8:38:15	75.6	73.8	76.8	0.0	0.06	6.8	
31110	8:38:30	75.7	73.8	76.9	0.0	0.06	6.8	
31125	8:38:45	75.8	73.8	76.9	0.0	0.06	6.8	
31140	8:39:00	75.8	73.9	76.9	0.0	0.06	6.8	
31155	8:39:15	75.8	73.9	76.8	0.0	0.06	6.8	
31170	8:39:30	75.8	73.8	76.8	0.0	0.06	6.8	
31185	8:39:45	75.8	73.8	76.9	0.0	0.07	6.8	
31200	8:40:00	76.1	73.8	76.8	0.0	0.07	6.8	
31215	8:40:15	75.9	73.9	76.8	0.0	0.07	6.8	
31230	8:40:30	76.0	73.9	76.8	0.0	0.07	6.8	
31245	8:40:45	76.2	73.9	76.8	0.0	0.08	6.8	
31260	8:41:00	76.1	73.9	76.8	0.0	0.08	6.8	
31275	8:41:15	76.2	73.9	76.8	0.0	0.08	6.8	
31290	8:41:30	76.1	73.9	76.8	0.0	0.08	6.8	
31305	8:41:45	76.0	73.9	76.8	0.0	0.08	6.8	
31320	8:42:00	76.2	74.0	76.8	0.0	0.08	6.8	System Low NOx OUT
31335	8:42:15	76.1	74.0	76.7	0.0	0.08	6.8	
31350	8:42:30	76.4	74.0	76.8	0.0	0.09	6.8	
31365	8:42:45	76.1	73.9	76.7	0.0	0.09	6.8	
Average		=	73.7					

APPENDIX C

Test Results for:

SSB 85

High & Intermediate Run#: 3

Date: July 9, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Maximum Rate

Input Rate = 85,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	74.2	75.2	°F
Relative Humidity	62	62	%
Barometer	28.83	28.83	in.Hg
Heating Value	1087	1087	BTU/ft ³
Inlet Pressure	7.6	7.6	in.w.c.
Manifold Pressure	-0.20	-0.20	in.w.c.
Gas Meter Reading	271.08	311.44	ft ³
Gas Temperature	73.0	73.0	°F
Water Meter Reading	698545.00	698589.8	gal

Mass	373.1	lb
Di	8.328	lb/gal
Dn	8.239	lb/gal

Tin	70.8	°F
Tdel	179.2	°F

Calculations		
Test Start	1:21:00	h:mm:ss
Test End	1:51:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	83,861	BTU/hr
Cf	1.098	no units
Ho	40,363	BTU
Uncorrected Volume	40.36	ft ³
Pressure Correction	0.980	no units
Meter Correction	1.000	no units
Temperature Correction	0.976	no units
F	38.57	ft ³
C	8.8	%
P	12.9	ppm

N = 8.0 ng/J
15.0 ppm @ 3% O₂

Date: July 9, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Intermediate Rate

Input Rate = 51,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	75.5	76.1	OF
Relative Humidity	62	62	%
Barometer	28.83	28.83	in.Hg
Heating Value	1087	1087	BTU/ft3
Inlet Pressure	7.4	7.4	in.w.c.
Manifold Pressure	-0.20	-0.2	in.w.c.
Gas Meter Reading	350.35	375.33	ft3
Gas Temperature	74.0	74.0	OF
Water Meter Reading	698637.00	698664.30	gal

Mass	227.4	lb
Di	8.328	lb/gal
Dn	8.238	lb/gal

Tin	70.9	OF
Tdel	180.4	OF

Calculations		
Test Start	2:28:00	h:mm:ss
Test End	2:58:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	51,781	BTU/hr
Cf	1.098	no units
Ho	24,846	BTU
Uncorrected Volume	24.98	ft3
Pressure Correction	0.979	no units
Meter Correction	1.000	no units
Temperature Correction	0.974	no units
F	23.82	ft3
C	8.0	%
P	5.8	ppm

N = 4.0 ng/J
7.4 ppm @ 3% O2

Date: July 9, 2015

High & Intermediate Run#: 3

Manufacturer: RIELLO
Model No.: SSB 85
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	6.58			1.23
NOx Mid	14.56	14.54			0.07	13.85			2.37
NOx High	26.66	26.72			-0.20				
CO2 Zero	0		0.00		0.00		0.00		0.00
CO2 Low	2.594		2.58		0.14		2.57		0.24
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			241	0.78			237	1.20
CO Mid	502.5			502	0.10			494	0.89
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	0.01			-0.03	0.10			-0.33	0.20
NOx Low	6.95	6.72			0.77	6.59			1.20	0.03
NOx Mid	14.56	14.15			1.37	13.91			2.17	0.20
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		2.57		0.24		2.57		0.24	0.00
CO2 Mid	5.007		5.01		-0.03		5.00		0.07	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			239	1.04			235	1.42	-0.21
CO Mid	502.5			497	0.52			490	1.21	-0.32
CO High	976			969	0.65					

Calibration Linearity

NOx Pretest	0.176
CO2 Pretest	-0.019
CO Pretest	0.088

NOx Post Test	0.384
CO2 Post Test	0.033
CO Post Test	0.186

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

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	73.3	70.0	71.0	0.0	0.00	0.0	Start Zero IN
15	0:00:15	73.1	69.9	71.0	0.0	0.00	0.0	
30	0:00:30	73.3	69.8	71.0	0.0	0.00	0.0	
45	0:00:45	73.0	69.8	70.8	0.0	0.01	0.0	
60	0:01:00	72.8	69.9	70.7	0.0	0.00	0.0	
75	0:01:15	72.6	69.9	70.6	0.0	0.00	0.0	
90	0:01:30	72.5	69.9	70.6	0.0	0.00	0.0	
105	0:01:45	72.4	69.9	70.5	0.0	0.00	0.0	
120	0:02:00	72.6	70.0	70.6	0.0	0.00	0.0	
135	0:02:15	72.6	70.0	70.6	0.0	0.00	0.0	
150	0:02:30	72.7	70.1	70.7	0.0	0.00	0.0	
165	0:02:45	73.0	70.1	70.7	0.0	0.00	0.0	
180	0:03:00	73.3	70.1	70.6	0.0	0.00	0.0	
195	0:03:15	73.1	70.1	70.7	0.0	0.00	0.0	
210	0:03:30	72.7	70.2	70.7	0.0	0.00	0.0	
225	0:03:45	72.7	70.1	70.8	0.0	0.00	0.0	Analyzer Zero IN
240	0:04:00	73.0	70.2	70.8	0.0	0.00	0.0	
255	0:04:15	72.7	70.3	70.8	0.0	0.00	0.0	
270	0:04:30	72.8	70.3	70.9	0.0	0.00	0.0	
285	0:04:45	73.0	70.3	70.8	0.0	0.00	0.0	
300	0:05:00	73.6	70.4	70.9	0.0	0.00	0.0	
315	0:05:15	73.4	70.4	70.9	0.0	0.00	0.0	
330	0:05:30	72.8	70.4	70.9	0.0	0.00	0.0	
345	0:05:45	73.1	70.4	71.0	0.0	0.00	0.0	
360	0:06:00	73.2	70.4	71.0	0.0	0.00	0.0	
375	0:06:15	73.2	70.4	71.0	0.0	0.00	0.0	
390	0:06:30	73.2	70.5	71.0	295.5	0.85	0.0	
405	0:06:45	73.1	70.5	71.1	887.9	9.04	5.9	Start High Span IN
420	0:07:00	72.9	70.4	71.0	959.9	9.41	11.8	
435	0:07:15	73.1	70.4	71.0	968.0	9.47	25.9	
450	0:07:30	72.9	70.5	71.0	971.1	9.48	26.4	
465	0:07:45	72.7	70.5	71.1	972.1	9.48	26.9	
480	0:08:00	72.7	70.6	71.2	972.7	9.48	27.0	
495	0:08:15	72.6	70.6	71.1	972.7	9.49	27.1	
510	0:08:30	72.7	70.6	71.2	973.2	9.49	27.1	
525	0:08:45	73.1	70.6	71.3	973.2	9.49	27.2	
540	0:09:00	73.0	70.6	71.3	973.2	9.49	27.2	
555	0:09:15	73.0	70.6	90.2	973.2	9.49	27.2	
570	0:09:30	73.2	70.6	117.5	973.2	9.49	27.2	
585	0:09:45	73.4	70.6	136.2	974.3	10.50	27.3	
600	0:10:00	73.4	70.5	141.4	974.3	10.50	27.3	
615	0:10:15	73.1	70.4	143.4	975.3	9.49	27.4	
630	0:10:30	73.2	70.4	143.8	975.1	9.48	26.7	
645	0:10:45	73.4	70.4	144.1	975.3	9.49	26.7	
660	0:11:00	73.4	70.3	144.4	975.2	9.49	26.7	
675	0:11:15	73.5	70.4	145.0	974.8	9.48	26.7	
690	0:11:30	73.4	70.3	145.4	974.8	9.49	26.7	
705	0:11:45	73.3	70.3	145.7	975.3	9.49	26.7	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	73.8	70.3	156.5	975.3	9.49	26.7	
735	0:12:15	73.6	70.3	164.5	974.8	9.48	26.7	
750	0:12:30	73.7	70.2	167.6	975.3	9.49	26.7	
765	0:12:45	73.9	70.2	169.3	975.9	9.49	26.7	
780	0:13:00	73.5	70.2	170.0	975.8	9.49	26.8	
795	0:13:15	73.8	70.2	170.8	975.8	9.49	26.7	
810	0:13:30	74.1	70.2	171.5	975.9	9.49	26.7	
825	0:13:45	74.2	70.2	171.9	975.8	9.49	26.7	
840	0:14:00	73.8	70.2	172.2	975.9	9.49	26.7	Analyzer High Span IN
855	0:14:15	73.8	70.1	172.4	975.6	9.49	26.7	
870	0:14:30	74.3	70.2	172.7	975.8	9.49	26.7	
885	0:14:45	73.6	70.1	172.9	874.5	9.38	26.7	
900	0:15:00	73.6	70.2	173.0	545.3	5.17	26.7	
915	0:15:15	73.8	70.2	172.8	508.8	5.02	13.5	
930	0:15:30	73.0	70.1	173.0	503.7	5.01	13.9	
945	0:15:45	73.7	70.0	173.2	502.1	5.01	14.3	
960	0:16:00	73.5	70.0	173.1	501.5	5.01	14.4	
975	0:16:15	73.7	70.0	173.2	501.5	5.01	14.5	
990	0:16:30	73.9	70.0	173.2	501.5	5.01	14.5	
1005	0:16:45	74.2	70.0	173.3	501.5	5.01	14.5	
1020	0:17:00	73.9	69.9	173.3	501.5	5.01	14.5	Start Mid Span IN
1035	0:17:15	73.8	70.0	173.4	501.6	5.01	14.5	
1050	0:17:30	73.6	69.9	173.2	501.6	5.01	14.5	
1065	0:17:45	73.6	69.8	173.2	501.5	5.01	14.5	
1080	0:18:00	73.5	69.8	173.2	501.5	5.01	14.5	
1095	0:18:15	73.2	69.8	173.2	501.5	5.01	14.5	
1110	0:18:30	73.4	69.7	173.2	501.6	5.01	14.5	
1125	0:18:45	73.3	69.8	173.1	501.6	5.01	14.6	
1140	0:19:00	73.6	69.7	173.1	501.5	5.01	14.6	
1155	0:19:15	73.6	69.8	173.1	501.5	5.01	14.5	
1170	0:19:30	73.9	69.7	173.0	501.5	5.01	14.5	
1185	0:19:45	73.6	69.6	174.1	501.0	5.01	14.5	
1200	0:20:00	73.8	69.7	176.5	501.0	5.01	14.6	
1215	0:20:15	74.2	69.6	177.1	501.0	5.01	14.5	
1230	0:20:30	74.5	69.5	177.4	501.0	5.01	14.5	
1245	0:20:45	74.2	69.6	177.5	501.0	5.01	14.5	
1260	0:21:00	74.3	69.6	177.7	501.0	5.01	14.6	
1275	0:21:15	74.3	69.5	177.8	501.5	5.01	14.5	
1290	0:21:30	74.3	69.5	177.8	501.5	5.01	14.5	
1305	0:21:45	74.5	69.5	177.8	501.5	5.01	14.5	
1320	0:22:00	74.2	69.5	177.8	501.5	5.01	14.5	Analyzer Mid Span IN
1335	0:22:15	74.1	69.5	178.0	501.5	5.01	14.5	
1350	0:22:30	74.5	69.5	178.1	501.0	5.00	14.5	
1365	0:22:45	74.3	69.5	177.9	501.0	5.00	14.2	
1380	0:23:00	74.0	69.4	177.6	389.4	4.26	13.9	
1395	0:23:15	74.3	69.4	177.6	255.8	2.62	14.9	
1410	0:23:30	74.8	69.5	177.7	245.0	2.58	10.7	
1425	0:23:45	74.3	69.5	177.7	242.8	2.58	6.6	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	74.3	69.4	177.8	241.8	2.58	6.7	
1455	0:24:15	74.8	69.3	177.8	241.8	2.58	6.9	
1470	0:24:30	75.0	69.3	177.7	241.8	2.58	6.9	
1485	0:24:45	75.0	69.3	177.6	241.8	2.58	6.9	
1500	0:25:00	74.9	69.3	177.7	241.8	2.57	6.9	Start Low Span IN
1515	0:25:15	74.9	69.3	177.6	241.8	2.58	6.9	
1530	0:25:30	74.5	69.3	177.6	241.8	2.58	6.9	
1545	0:25:45	73.9	69.3	177.5	241.8	2.58	6.9	
1560	0:26:00	74.3	69.3	177.5	241.8	2.58	6.9	
1575	0:26:15	74.2	69.2	177.7	241.8	2.58	6.9	
1590	0:26:30	74.2	69.2	177.7	241.8	2.58	6.9	
1605	0:26:45	73.9	69.2	177.7	241.8	2.58	6.9	
1620	0:27:00	74.0	69.2	177.6	241.8	2.58	6.9	
1635	0:27:15	73.9	69.2	177.6	241.8	2.58	6.9	
1650	0:27:30	73.7	69.2	177.7	241.8	2.58	6.9	
1665	0:27:45	73.6	69.3	177.6	241.8	2.58	6.9	
1680	0:28:00	74.1	69.3	177.6	241.8	2.58	6.9	
1695	0:28:15	74.2	69.2	177.6	241.8	2.58	6.9	
1710	0:28:30	74.4	69.2	177.5	241.8	2.58	6.9	
1725	0:28:45	74.6	69.2	177.5	241.8	2.57	6.9	
1740	0:29:00	74.5	69.1	177.7	241.3	2.57	6.9	
1755	0:29:15	74.6	69.2	177.4	241.3	2.57	6.9	
1770	0:29:30	74.6	69.1	177.5	241.2	2.57	6.9	
1785	0:29:45	74.4	69.1	177.5	241.3	2.58	6.9	
1800	0:30:00	74.4	69.1	177.5	241.3	2.58	6.9	Analyzer Low Span IN
1815	0:30:15	74.3	69.1	177.4	241.3	2.58	6.9	
1830	0:30:30	75.3	69.1	177.6	241.3	2.57	6.9	
1845	0:30:45	74.4	69.1	177.6	238.4	2.58	6.9	
1860	0:31:00	74.6	69.1	177.5	56.3	0.52	6.9	
1875	0:31:15	74.8	69.0	177.5	5.4	0.04	0.4	
1890	0:31:30	74.7	69.1	177.5	0.1	0.01	0.3	
1905	0:31:45	74.4	69.1	177.5	0.0	0.00	0.1	
1920	0:32:00	74.2	69.1	177.5	0.0	0.00	0.1	
1935	0:32:15	73.9	69.0	177.5	0.0	0.00	0.1	
1950	0:32:30	73.8	69.0	177.4	0.0	0.00	0.1	
1965	0:32:45	73.8	69.0	177.5	0.0	0.00	0.1	
1980	0:33:00	74.3	69.1	177.5	0.0	0.00	0.1	Start Zero Bias IN
1995	0:33:15	74.1	69.1	177.5	0.0	0.00	0.1	
2010	0:33:30	73.8	69.1	177.6	0.0	0.00	0.1	
2025	0:33:45	74.0	69.1	177.6	0.0	0.00	0.1	
2040	0:34:00	74.0	69.1	177.4	0.0	0.00	0.1	
2055	0:34:15	74.6	69.1	177.3	0.0	0.00	0.1	
2070	0:34:30	74.6	69.1	177.5	0.0	0.00	0.1	
2085	0:34:45	74.7	69.1	177.4	0.0	0.00	0.1	
2100	0:35:00	74.8	69.0	177.5	0.0	0.00	0.1	
2115	0:35:15	74.6	69.1	177.3	0.0	0.00	0.1	
2130	0:35:30	74.4	69.1	177.4	0.0	0.00	0.1	
2145	0:35:45	74.5	69.1	177.5	0.0	0.00	0.1	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	74.6	69.1	177.6	0.0	0.00	0.1	
2175	0:36:15	74.7	69.0	177.2	0.0	0.00	0.1	
2190	0:36:30	74.7	69.0	176.5	0.0	0.00	0.1	
2205	0:36:45	74.7	69.0	176.4	0.0	0.00	0.1	
2220	0:37:00	74.8	69.0	176.4	0.0	0.00	0.1	
2235	0:37:15	74.5	69.0	176.2	0.0	0.00	0.1	
2250	0:37:30	74.0	68.9	176.0	0.0	0.00	0.1	
2265	0:37:45	74.4	69.0	176.0	0.0	0.00	0.0	
2280	0:38:00	74.5	68.9	175.9	0.0	0.00	0.0	System Zero IN
2295	0:38:15	75.0	69.0	175.9	0.0	0.00	0.0	
2310	0:38:30	74.5	69.0	175.8	0.0	0.00	0.0	
2325	0:38:45	74.3	69.0	175.9	0.0	0.00	0.0	
2340	0:39:00	74.7	69.1	175.9	0.0	0.03	0.0	
2355	0:39:15	74.7	69.0	176.0	331.9	3.66	0.1	
2370	0:39:30	74.8	69.1	176.0	473.5	4.86	0.1	
2385	0:39:45	74.7	69.0	175.9	486.1	4.94	0.1	
2400	0:40:00	74.6	69.0	177.0	490.4	4.97	0.1	
2415	0:40:15	74.4	69.0	177.2	491.5	4.97	0.1	
2430	0:40:30	74.2	68.9	177.4	492.5	4.98	0.1	
2445	0:40:45	74.3	69.0	177.5	492.5	4.99	0.1	
2460	0:41:00	74.6	69.1	177.5	493.0	4.99	0.1	Start Mid CO/CO2 Bias IN
2475	0:41:15	74.5	69.0	177.6	493.0	4.99	0.1	
2490	0:41:30	74.3	69.0	177.7	493.6	4.99	0.1	
2505	0:41:45	74.3	69.1	177.7	493.6	4.99	0.1	
2520	0:42:00	74.5	69.0	177.6	493.6	4.99	0.1	
2535	0:42:15	74.4	69.1	177.6	493.6	4.99	0.1	
2550	0:42:30	74.4	69.1	177.8	493.6	4.99	0.1	
2565	0:42:45	74.3	69.1	177.9	493.6	4.99	0.1	
2580	0:43:00	74.3	69.1	177.8	493.6	5.00	0.0	
2595	0:43:15	74.5	69.2	177.9	493.8	5.00	0.0	
2610	0:43:30	74.5	69.2	177.8	493.6	5.00	0.0	
2625	0:43:45	74.9	69.2	178.0	493.6	5.00	0.0	
2640	0:44:00	75.0	69.2	178.0	493.6	5.00	0.0	
2655	0:44:15	74.7	69.3	177.6	493.6	5.00	0.0	
2670	0:44:30	74.6	69.3	177.2	493.6	5.00	0.0	
2685	0:44:45	74.5	69.3	177.3	493.6	5.00	0.0	
2700	0:45:00	74.5	69.4	177.2	493.6	5.00	0.0	
2715	0:45:15	74.8	69.4	177.2	493.6	5.00	0.0	
2730	0:45:30	74.5	69.5	177.3	493.6	5.00	0.0	
2745	0:45:45	74.7	69.5	177.3	493.6	5.00	0.0	
2760	0:46:00	74.7	69.6	177.0	493.6	5.00	0.0	System Mid CO/CO2 IN
2775	0:46:15	74.5	69.7	177.1	493.6	5.00	0.0	
2790	0:46:30	74.6	69.8	177.1	493.6	5.00	0.0	
2805	0:46:45	74.4	69.8	176.9	321.0	4.24	0.0	
2820	0:47:00	74.2	69.9	177.1	53.2	0.50	0.0	
2835	0:47:15	74.4	70.0	177.1	140.3	1.46	0.1	
2850	0:47:30	74.6	70.1	177.3	225.6	2.51	0.1	
2865	0:47:45	74.3	70.1	177.2	233.3	2.56	0.0	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	74.3	70.1	177.4	235.9	2.57	0.0	
2895	0:48:15	74.3	70.2	177.5	237.0	2.57	0.0	
2910	0:48:30	74.6	70.3	177.6	237.0	2.57	0.0	
2925	0:48:45	74.5	70.3	177.8	237.5	2.57	0.0	
2940	0:49:00	74.4	70.5	177.7	237.0	2.57	0.0	Start Low CO/CO2 Bias IN
2955	0:49:15	74.5	70.5	177.8	237.0	2.57	0.0	
2970	0:49:30	74.6	70.4	177.8	237.5	2.57	0.0	
2985	0:49:45	74.6	70.5	177.8	237.5	2.57	0.0	
3000	0:50:00	74.5	70.5	177.8	237.5	2.57	0.0	
3015	0:50:15	74.2	70.5	177.8	237.5	2.57	0.0	
3030	0:50:30	74.3	70.5	178.1	237.5	2.57	0.0	
3045	0:50:45	74.5	70.5	178.1	237.5	2.57	0.0	
3060	0:51:00	74.4	70.6	178.3	237.5	2.57	0.0	
3075	0:51:15	74.7	70.7	178.5	237.5	2.57	0.0	
3090	0:51:30	74.6	70.7	178.8	237.5	2.57	0.0	
3105	0:51:45	74.4	70.6	178.5	237.0	2.57	0.0	
3120	0:52:00	74.6	70.7	178.5	237.0	2.57	0.0	
3135	0:52:15	74.8	70.7	178.6	237.0	2.57	0.0	
3150	0:52:30	74.9	70.6	178.7	237.0	2.57	0.0	
3165	0:52:45	74.8	70.7	178.8	237.0	2.57	0.0	
3180	0:53:00	75.0	70.7	178.7	237.0	2.57	0.0	
3195	0:53:15	74.8	70.7	178.7	237.0	2.57	0.0	
3210	0:53:30	74.9	70.8	178.7	237.0	2.57	0.0	
3225	0:53:45	75.2	70.7	178.8	237.0	2.57	0.0	
3240	0:54:00	74.8	70.7	178.8	237.0	2.57	0.0	System Low CO/CO2 IN
3255	0:54:15	75.2	70.8	178.9	237.0	2.57	0.0	
3270	0:54:30	74.9	70.8	179.1	237.0	2.57	0.0	
3285	0:54:45	74.8	70.8	179.0	237.0	2.57	0.0	
3300	0:55:00	74.7	70.7	179.0	187.5	2.49	0.0	
3315	0:55:15	75.1	70.8	178.9	26.0	0.21	0.0	
3330	0:55:30	75.0	70.7	179.0	3.3	0.06	0.0	
3345	0:55:45	74.7	70.7	179.0	0.0	0.01	6.6	
3360	0:56:00	74.7	70.8	178.9	0.0	0.01	13.2	
3375	0:56:15	74.7	70.7	178.9	0.0	0.01	13.1	
3390	0:56:30	74.6	70.8	179.2	0.0	0.01	13.4	
3405	0:56:45	74.6	70.8	179.2	0.0	0.01	13.8	
3420	0:57:00	74.7	70.7	179.1	0.0	0.01	13.8	Start Mid NOx Bias IN
3435	0:57:15	74.5	70.8	179.2	0.0	0.01	13.8	
3450	0:57:30	74.8	70.8	179.1	0.0	0.01	13.8	
3465	0:57:45	74.9	70.8	179.1	0.0	0.01	13.8	
3480	0:58:00	75.1	70.8	179.1	0.0	0.01	13.8	
3495	0:58:15	75.1	70.9	179.1	0.0	0.01	13.8	
3510	0:58:30	74.6	70.8	179.1	0.0	0.01	13.8	
3525	0:58:45	74.6	70.8	179.1	0.0	0.01	13.8	
3540	0:59:00	75.0	70.8	178.9	0.0	0.02	13.8	
3555	0:59:15	75.1	70.8	179.2	0.0	0.02	13.8	
3570	0:59:30	74.8	70.8	178.8	0.0	0.02	13.8	
3585	0:59:45	74.8	70.8	178.8	0.0	0.02	13.8	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	75.1	70.8	178.8	0.0	0.02	13.8	
3615	1:00:15	75.1	70.8	179.0	0.0	0.02	13.8	
3630	1:00:30	74.9	70.8	178.8	0.0	0.02	13.8	
3645	1:00:45	75.5	70.8	178.8	0.0	0.02	13.9	
3660	1:01:00	75.8	70.8	178.8	0.0	0.02	13.9	
3675	1:01:15	75.2	70.7	178.9	0.0	0.02	13.8	
3690	1:01:30	75.2	70.7	178.9	0.0	0.02	13.8	
3705	1:01:45	75.0	70.7	178.9	0.0	0.02	13.9	
3720	1:02:00	74.6	70.7	178.8	0.0	0.02	13.9	System Mid NOx IN
3735	1:02:15	74.9	70.8	178.9	0.0	0.03	13.9	
3750	1:02:30	75.0	70.7	179.0	0.0	0.03	13.9	
3765	1:02:45	75.1	70.8	178.9	0.0	0.03	13.9	
3780	1:03:00	74.8	70.8	178.9	0.0	0.03	13.9	
3795	1:03:15	74.8	70.9	179.1	0.0	0.03	13.8	
3810	1:03:30	75.1	70.8	178.8	0.0	0.03	11.1	
3825	1:03:45	75.4	70.8	179.0	0.0	0.03	4.8	
3840	1:04:00	75.2	70.8	179.1	0.0	0.03	1.1	
3855	1:04:15	75.2	70.8	179.2	0.0	0.03	6.4	
3870	1:04:30	75.4	70.8	179.0	0.0	0.03	6.5	
3885	1:04:45	75.4	70.8	179.1	0.0	0.03	6.6	
3900	1:05:00	75.2	70.9	179.1	0.0	0.04	6.6	Start Low NOx Bias IN
3915	1:05:15	75.3	70.8	179.1	0.0	0.04	6.6	
3930	1:05:30	74.8	70.8	179.1	0.0	0.04	6.6	
3945	1:05:45	74.8	70.8	179.1	0.0	0.04	6.6	
3960	1:06:00	74.8	70.8	179.2	0.0	0.04	6.6	
3975	1:06:15	74.7	70.8	179.2	0.0	0.04	6.6	
3990	1:06:30	75.2	70.8	179.4	0.0	0.04	6.6	
4005	1:06:45	74.9	70.9	179.3	0.0	0.04	6.6	
4020	1:07:00	74.5	70.8	179.2	0.0	0.04	6.6	
4035	1:07:15	74.5	70.8	179.3	0.0	0.04	6.6	
4050	1:07:30	74.9	70.8	179.4	0.0	0.04	6.6	
4065	1:07:45	74.6	70.8	179.4	0.0	0.05	6.6	
4080	1:08:00	74.9	70.8	179.5	0.0	0.05	6.6	
4095	1:08:15	74.7	70.7	179.5	0.0	0.05	6.6	
4110	1:08:30	74.7	70.7	179.3	0.0	0.05	6.6	
4125	1:08:45	74.6	70.8	179.4	0.0	0.05	6.6	
4140	1:09:00	74.4	70.7	179.3	0.0	0.05	6.6	
4155	1:09:15	74.5	70.7	179.1	0.0	0.06	6.6	
4170	1:09:30	74.5	70.8	179.1	0.0	0.06	6.6	
4185	1:09:45	74.8	70.8	179.1	0.0	0.06	6.6	
4200	1:10:00	74.9	70.8	179.1	0.0	0.06	6.6	System Low NOx IN
4215	1:10:15	74.9	70.8	179.2	0.0	0.06	6.6	
4230	1:10:30	75.0	70.7	179.2	0.0	0.06	6.6	
4245	1:10:45	75.2	70.7	179.1	0.0	0.06	6.6	
4260	1:11:00	74.9	70.8	179.2	0.0	0.06	6.6	
4275	1:11:15	75.0	70.8	179.2	0.0	0.06	6.6	
4290	1:11:30	75.0	70.7	179.2	0.0	0.06	6.6	
4305	1:11:45	74.9	70.7	179.3	0.0	0.06	6.6	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
4320	1:12:00	74.6	70.7	179.3	0.0	0.06	6.6	
4335	1:12:15	75.0	70.7	179.2	0.0	0.07	6.6	
4350	1:12:30	74.8	70.7	179.2	0.0	0.07	6.6	
4365	1:12:45	75.1	70.7	179.2	0.0	0.07	6.5	
4380	1:13:00	74.5	70.7	179.2	0.0	0.07	6.5	
4395	1:13:15	74.4	70.7	179.2	0.0	0.03	6.5	
4410	1:13:30	74.4	70.7	179.2	16.1	1.20	6.5	
4425	1:13:45	74.8	70.8	179.3	44.8	8.45	8.0	
4440	1:14:00	74.9	70.9	179.4	49.6	8.69	9.4	
4455	1:14:15	75.1	70.8	179.3	51.2	8.75	11.3	
4470	1:14:30	75.1	70.9	179.3	51.2	8.76	11.5	
4485	1:14:45	74.8	70.9	179.2	51.7	8.78	11.8	
4500	1:15:00	75.0	70.9	179.2	52.3	8.79	11.8	Start High Fire Equilibrium - #3
4515	1:15:15	74.8	70.9	179.4	51.7	8.79	12.1	
4530	1:15:30	74.5	70.9	179.4	51.7	8.79	12.0	
4545	1:15:45	74.3	70.9	179.3	51.7	8.79	12.1	
4560	1:16:00	74.3	70.9	179.3	51.7	8.79	12.1	
4575	1:16:15	74.5	70.9	179.4	51.8	8.79	12.2	
4590	1:16:30	74.9	70.9	179.4	51.7	8.79	12.3	
4605	1:16:45	74.7	70.8	179.2	51.7	8.79	12.4	
4620	1:17:00	74.5	70.8	179.3	51.2	8.79	12.5	
4635	1:17:15	74.5	70.9	179.2	51.2	8.79	12.5	
4650	1:17:30	74.8	70.9	179.3	51.2	8.79	12.7	
4665	1:17:45	75.0	70.9	179.5	51.7	8.79	12.8	
4680	1:18:00	74.7	70.8	179.4	51.7	8.79	12.9	
4695	1:18:15	74.5	70.8	179.4	51.2	8.79	13.0	
4710	1:18:30	74.4	70.9	179.3	51.7	8.79	12.9	
4725	1:18:45	74.2	70.9	179.4	51.2	8.78	12.8	
4740	1:19:00	74.2	70.9	179.3	51.7	8.79	12.9	
4755	1:19:15	74.5	70.7	179.2	51.7	8.79	12.9	
4770	1:19:30	74.8	70.8	179.2	51.7	8.79	12.9	
4785	1:19:45	74.5	70.9	179.5	51.7	8.79	13.0	
4800	1:20:00	74.7	70.8	179.2	51.7	8.79	13.0	End High Fire Equilibrium - #3
4815	1:20:15	74.4	70.8	179.4	51.7	8.79	13.2	
4830	1:20:30	74.6	70.9	179.4	51.2	8.80	13.2	
4845	1:20:45	74.3	70.9	179.3	51.2	8.79	13.2	
4860	1:21:00	74.2	70.9	179.4	51.7	8.79	13.2	Start Test - High Fire - #3
4875	1:21:15	74.4	70.9	179.4	51.7	8.80	13.1	
4890	1:21:30	74.7	70.9	179.4	51.7	8.80	13.2	
4905	1:21:45	74.7	71.0	179.6	51.7	8.80	13.2	
4920	1:22:00	74.9	71.0	179.5	51.7	8.80	13.2	
4935	1:22:15	74.9	70.9	179.3	51.7	8.80	13.3	
4950	1:22:30	75.1	71.0	179.4	51.7	8.80	13.3	
4965	1:22:45	74.9	71.0	179.4	51.2	8.79	13.3	
4980	1:23:00	75.0	70.9	179.3	51.2	8.79	13.3	
4995	1:23:15	75.5	71.0	179.5	51.5	8.80	13.3	
5010	1:23:30	75.0	71.0	179.4	51.2	8.80	13.3	
5025	1:23:45	74.7	70.9	179.4	51.2	8.80	13.3	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5040	1:24:00	74.4	70.9	179.5	51.2	8.80	13.3
5055	1:24:15	74.6	70.9	179.2	51.2	8.79	13.2
5070	1:24:30	74.3	70.9	179.3	50.7	8.79	13.2
5085	1:24:45	74.3	70.9	179.3	50.7	8.78	13.2
5100	1:25:00	74.2	70.9	179.4	50.7	8.79	13.1
5115	1:25:15	74.7	71.0	179.4	51.2	8.79	13.2
5130	1:25:30	74.5	71.0	179.2	51.2	8.79	13.2
5145	1:25:45	74.8	70.9	179.2	51.2	8.79	13.3
5160	1:26:00	74.8	70.9	179.3	51.2	8.79	13.3
5175	1:26:15	75.2	70.8	179.2	51.7	8.80	13.3
5190	1:26:30	75.3	70.9	179.3	51.7	8.80	13.3
5205	1:26:45	75.0	70.9	179.5	51.2	8.79	13.3
5220	1:27:00	74.7	70.8	179.4	51.2	8.79	13.3
5235	1:27:15	75.0	70.9	179.4	51.2	8.79	13.3
5250	1:27:30	74.6	70.8	179.4	51.7	8.80	13.2
5265	1:27:45	74.5	70.8	179.3	51.7	8.80	13.3
5280	1:28:00	74.5	70.9	179.3	51.2	8.78	13.4
5295	1:28:15	74.5	70.8	179.3	51.7	8.79	13.3
5310	1:28:30	74.7	70.8	179.1	51.7	8.79	13.3
5325	1:28:45	74.6	70.8	179.2	51.2	8.79	13.3
5340	1:29:00	74.6	70.8	179.3	51.2	8.79	13.3
5355	1:29:15	74.9	70.9	179.2	51.2	8.79	13.3
5370	1:29:30	74.6	70.9	179.1	51.2	8.79	13.3
5385	1:29:45	75.2	70.9	179.2	51.2	8.79	13.3
5400	1:30:00	74.7	70.9	179.3	51.2	8.79	13.3
5415	1:30:15	75.6	70.9	179.2	51.2	8.79	13.2
5430	1:30:30	75.4	70.9	179.4	51.2	8.79	13.2
5445	1:30:45	75.0	70.9	179.5	51.2	8.79	13.1
5460	1:31:00	75.0	70.9	179.5	51.2	8.79	13.0
5475	1:31:15	74.9	70.9	179.3	51.2	8.79	13.1
5490	1:31:30	75.0	70.9	179.2	50.7	8.79	13.1
5505	1:31:45	74.9	71.0	179.3	50.7	8.78	13.0
5520	1:32:00	74.7	70.9	179.2	50.7	8.79	13.1
5535	1:32:15	75.0	70.9	179.2	50.7	8.78	13.2
5550	1:32:30	74.9	70.9	179.3	50.7	8.78	13.2
5565	1:32:45	74.7	70.8	179.1	50.7	8.78	13.2
5580	1:33:00	74.4	70.8	179.1	50.1	8.78	13.2
5595	1:33:15	74.4	70.9	179.2	50.7	8.79	13.1
5610	1:33:30	74.4	70.9	179.3	50.1	8.79	13.1
5625	1:33:45	74.4	70.8	179.2	50.1	8.78	13.1
5640	1:34:00	74.9	70.9	179.1	50.1	8.78	13.1
5655	1:34:15	74.7	70.9	179.1	51.2	8.80	13.1
5670	1:34:30	74.5	70.9	179.2	51.2	8.79	13.2
5685	1:34:45	74.7	70.9	179.1	51.2	8.79	13.3
5700	1:35:00	74.9	71.0	179.3	50.7	8.78	13.3
5715	1:35:15	74.9	70.9	179.3	50.7	8.78	13.3
5730	1:35:30	75.1	70.9	179.2	50.7	8.78	13.3
5745	1:35:45	74.9	70.8	179.1	51.2	8.79	13.2

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5760	1:36:00	75.3	70.8	179.1	50.7	8.78	13.1
5775	1:36:15	75.0	70.8	178.9	50.7	8.78	13.0
5790	1:36:30	75.3	70.8	179.0	50.7	8.78	13.0
5805	1:36:45	75.4	70.8	179.2	50.7	8.78	13.0
5820	1:37:00	74.7	70.7	179.0	50.7	8.78	13.0
5835	1:37:15	74.7	70.7	179.2	50.7	8.78	13.0
5850	1:37:30	74.6	70.7	179.2	50.7	8.78	12.9
5865	1:37:45	74.5	70.8	179.2	50.7	8.79	13.1
5880	1:38:00	74.9	70.9	179.1	50.7	8.79	13.2
5895	1:38:15	74.6	70.9	179.1	50.7	8.79	13.2
5910	1:38:30	75.2	70.9	179.1	50.7	8.78	13.2
5925	1:38:45	74.9	70.9	179.2	50.7	8.78	13.1
5940	1:39:00	74.6	70.8	179.2	50.7	8.79	13.1
5955	1:39:15	74.7	70.8	179.3	51.2	8.79	13.0
5970	1:39:30	74.7	70.8	179.4	51.2	8.80	13.1
5985	1:39:45	74.6	70.8	179.3	50.7	8.79	13.1
6000	1:40:00	74.7	70.8	179.3	50.7	8.79	13.1
6015	1:40:15	74.7	70.8	179.2	50.7	8.78	13.0
6030	1:40:30	74.6	70.7	179.3	50.7	8.78	13.0
6045	1:40:45	74.5	70.7	179.3	50.1	8.78	13.0
6060	1:41:00	74.3	70.8	179.4	50.1	8.78	13.0
6075	1:41:15	74.3	70.7	179.2	50.1	8.78	12.9
6090	1:41:30	74.2	70.8	179.2	50.1	8.78	12.9
6105	1:41:45	74.4	70.7	179.4	50.7	8.78	12.9
6120	1:42:00	74.5	70.8	179.2	50.1	8.78	13.0
6135	1:42:15	74.5	70.7	179.1	50.1	8.78	12.9
6150	1:42:30	74.7	70.6	179.1	50.1	8.78	12.9
6165	1:42:45	74.8	70.7	179.0	49.6	8.78	12.8
6180	1:43:00	74.7	70.7	178.9	50.1	8.77	12.8
6195	1:43:15	74.9	70.7	179.0	50.1	8.78	12.8
6210	1:43:30	75.0	70.7	179.0	50.1	8.78	12.9
6225	1:43:45	74.9	70.7	179.0	50.1	8.78	12.9
6240	1:44:00	74.8	70.8	179.1	50.1	8.78	13.0
6255	1:44:15	74.8	70.7	179.0	50.1	8.78	13.1
6270	1:44:30	74.9	70.6	179.0	50.1	8.78	13.1
6285	1:44:45	74.7	70.6	179.1	50.1	8.78	13.0
6300	1:45:00	75.2	70.7	179.1	50.1	8.78	12.9
6315	1:45:15	75.2	70.7	178.9	50.7	8.79	12.9
6330	1:45:30	75.2	70.8	179.1	50.7	8.78	13.0
6345	1:45:45	75.1	70.7	178.9	50.7	8.79	13.0
6360	1:46:00	74.9	70.7	179.1	50.1	8.78	13.0
6375	1:46:15	74.9	70.6	179.0	50.1	8.78	12.9
6390	1:46:30	74.8	70.7	179.0	50.1	8.78	12.9
6405	1:46:45	74.6	70.7	179.0	50.7	8.79	12.9
6420	1:47:00	74.8	70.7	179.1	50.7	8.79	13.0
6435	1:47:15	74.9	70.7	179.2	50.1	8.78	12.9
6450	1:47:30	75.1	70.7	179.3	50.1	8.79	12.9
6465	1:47:45	74.9	70.7	179.0	50.1	8.79	12.9

Comments

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
6480 1:48:00	74.9	70.6	179.2	50.1	8.78	13.0	Start Emissions
6495 1:48:15	75.1	70.7	179.1	50.1	8.78	12.8	
6510 1:48:30	75.3	70.6	179.1	50.1	8.78	12.9	
6525 1:48:45	75.2	70.6	178.9	49.6	8.78	12.9	
6540 1:49:00	74.9	70.6	178.8	50.1	8.78	12.9	1st Minute
6555 1:49:15	75.2	70.7	178.8	49.6	8.78	12.9	
6570 1:49:30	74.8	70.6	178.9	50.1	8.78	12.9	
6585 1:49:45	75.2	70.6	178.8	50.1	8.78	12.9	
6600 1:50:00	75.0	70.6	178.8	50.1	8.78	13.0	2nd Minute
6615 1:50:15	75.0	70.6	178.9	50.1	8.79	13.0	
6630 1:50:30	75.2	70.7	179.0	50.1	8.78	13.1	
6645 1:50:45	74.9	70.6	178.8	50.1	8.79	13.1	
6660 1:51:00	75.2	70.6	178.9	50.1	8.78	13.0	3rd Minute / EOT - High Fire - #3
6675 1:51:15	74.7	70.6	178.8	50.1	8.79	13.0	
6690 1:51:30	74.6	70.6	178.7	50.1	8.78	13.0	CO2 (Avg) % = 8.78
6705 1:51:45	74.9	70.5	178.9	50.1	8.78	12.9	NOx (Avg) ppm = 12.9
6720 1:52:00	75.0	70.5	178.8	50.1	8.78	12.9	CO (Max) ppm = 51.7
6735 1:52:15	75.1	70.6	178.7	50.1	8.78	13.0	Ambient (Avg) F = 74.8
6750 1:52:30	74.9	70.6	178.8	50.1	8.78	13.0	T_In (Avg) F = 70.8
6765 1:52:45	75.0	70.6	178.8	49.6	8.78	13.0	T_Del (Avg) F = 179.2
6780 1:53:00	75.6	70.6	178.7	50.1	8.78	12.9	
6795 1:53:15	75.5	70.7	179.1	49.6	8.78	13.0	
6810 1:53:30	75.2	70.6	178.9	50.1	8.79	12.9	
6825 1:53:45	75.3	70.7	179.1	50.1	8.78	12.9	
6840 1:54:00	75.0	70.6	179.0	50.7	8.80	13.0	
6855 1:54:15	75.4	70.6	179.0	50.7	8.79	13.1	
6870 1:54:30	75.4	70.5	178.9	50.7	8.79	13.1	
6885 1:54:45	75.4	70.6	178.9	50.7	8.79	13.1	
6900 1:55:00	75.3	70.6	179.0	50.7	8.79	13.0	
6915 1:55:15	75.4	70.6	179.0	50.7	8.79	13.0	
6930 1:55:30	75.0	70.6	179.0	50.7	8.79	12.9	
6945 1:55:45	75.2	70.6	179.0	50.7	8.79	12.9	
6960 1:56:00	75.2	70.5	179.1	50.7	8.79	13.0	
6975 1:56:15	75.3	70.6	179.3	50.7	8.79	13.0	
6990 1:56:30	75.1	70.6	179.2	51.2	8.80	13.0	
7005 1:56:45	75.3	70.6	179.1	50.7	8.80	13.1	
7020 1:57:00	75.4	70.6	179.0	50.7	8.78	13.1	
7035 1:57:15	75.2	70.6	179.2	50.7	8.79	12.9	
7050 1:57:30	75.0	70.6	179.1	50.7	8.79	12.9	
7065 1:57:45	74.7	70.6	179.2	50.1	8.79	12.9	
7080 1:58:00	74.9	70.6	179.3	50.7	8.79	12.9	
7095 1:58:15	74.8	70.7	179.2	50.1	8.79	13.0	
7110 1:58:30	75.0	70.7	169.7	50.1	8.78	12.9	
7125 1:58:45	75.7	70.7	153.5	23.0	8.31	12.7	
7140 1:59:00	76.0	70.7	147.4	16.1	8.11	12.5	
7155 1:59:15	75.3	70.7	143.6	15.0	8.06	7.9	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
7170	1:59:30	75.6	70.7	141.0	18.2	8.04	7.7
7185	1:59:45	75.4	70.6	139.2	20.3	8.02	7.3
7200	2:00:00	75.3	70.6	137.5	17.1	8.00	7.3
7215	2:00:15	75.9	70.6	136.7	15.0	7.97	7.0
7230	2:00:30	75.6	70.6	136.1	13.4	7.96	6.9
7245	2:00:45	75.5	70.6	135.8	12.9	7.96	6.8
7260	2:01:00	75.8	70.7	135.4	12.3	7.96	6.8
7275	2:01:15	75.7	70.6	134.9	12.3	7.95	6.6
7290	2:01:30	76.2	70.5	134.6	12.3	7.94	6.6
7305	2:01:45	76.7	70.6	134.5	12.3	7.92	6.4
7320	2:02:00	75.9	70.5	134.3	12.3	7.92	6.4
7335	2:02:15	75.8	70.5	134.4	12.9	7.92	6.3
7350	2:02:30	75.7	70.5	133.9	12.9	7.94	6.3
7365	2:02:45	75.5	70.5	133.6	12.4	7.91	6.3
7380	2:03:00	75.4	70.5	133.5	11.8	7.89	6.2
7395	2:03:15	75.6	70.5	136.8	12.3	7.88	6.1
7410	2:03:30	75.3	70.5	146.5	11.8	7.89	6.0
7425	2:03:45	75.1	70.6	153.8	11.8	7.88	6.0
7440	2:04:00	75.0	70.5	161.2	11.8	7.89	6.0
7455	2:04:15	74.9	70.6	166.9	12.4	7.91	5.9
7470	2:04:30	75.2	70.5	170.0	11.8	7.92	6.0
7485	2:04:45	75.4	70.6	171.9	11.8	7.94	6.0
7500	2:05:00	75.3	70.7	172.8	11.8	7.93	6.1
7515	2:05:15	75.2	70.8	173.2	11.8	7.94	5.9
7530	2:05:30	75.1	70.9	173.6	11.8	7.94	6.0
7545	2:05:45	75.2	71.2	174.0	11.8	7.95	6.0
7560	2:06:00	75.2	71.2	174.1	11.8	7.95	6.0
7575	2:06:15	75.2	71.3	174.5	11.8	7.95	5.9
7590	2:06:30	75.3	71.4	174.8	12.3	7.96	5.9
7605	2:06:45	75.5	71.4	172.9	12.3	7.96	5.9
7620	2:07:00	75.3	71.5	172.4	12.3	7.96	5.9
7635	2:07:15	75.1	71.5	172.3	13.9	7.97	5.9
7650	2:07:30	75.1	71.6	172.8	14.5	7.97	5.9
7665	2:07:45	75.3	71.6	174.5	14.5	7.99	6.0
7680	2:08:00	75.1	71.5	175.9	15.0	7.97	6.0
7695	2:08:15	74.9	71.5	176.6	16.1	7.96	5.8
7710	2:08:30	75.2	71.5	177.4	17.1	7.97	5.8
7725	2:08:45	75.4	71.4	177.7	18.2	7.97	5.9
7740	2:09:00	75.6	71.3	177.7	18.7	7.97	5.9
7755	2:09:15	75.3	71.3	177.8	20.3	7.97	5.8
7770	2:09:30	75.0	71.2	177.8	20.9	7.97	5.8
7785	2:09:45	74.7	71.2	178.1	20.3	7.98	5.8
7800	2:10:00	74.9	71.1	178.3	21.4	7.99	5.8
7815	2:10:15	75.0	71.0	177.9	23.0	7.98	5.9
7830	2:10:30	74.8	71.0	177.6	24.6	7.95	5.8
7845	2:10:45	74.9	70.8	177.5	24.1	7.94	5.7
7860	2:11:00	75.1	70.8	178.1	24.1	7.97	5.7
7875	2:11:15	74.9	70.8	177.8	24.1	7.98	5.8

Comments

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)
7890	2:11:30	75.1	70.8	177.8	24.1	7.97	5.9
7905	2:11:45	75.3	70.8	177.6	24.1	7.96	5.9
7920	2:12:00	75.5	70.7	178.2	23.5	7.98	5.9
7935	2:12:15	75.7	70.8	178.2	23.5	7.99	5.9
7950	2:12:30	75.9	70.8	178.2	24.1	7.97	5.9
7965	2:12:45	75.5	70.7	178.2	23.5	7.98	5.9
7980	2:13:00	75.3	70.7	178.2	23.5	7.99	5.8
7995	2:13:15	75.5	70.6	178.1	23.5	7.98	5.9
8010	2:13:30	75.3	70.7	177.7	23.0	7.97	5.8
8025	2:13:45	75.1	70.6	177.3	22.5	7.96	5.8
8040	2:14:00	75.3	70.6	177.4	23.0	7.96	5.8
8055	2:14:15	75.5	70.6	177.3	23.0	7.97	5.7
8070	2:14:30	75.5	70.6	177.2	23.0	7.96	5.7
8085	2:14:45	74.9	70.6	177.2	23.0	7.96	5.7
8100	2:15:00	75.3	70.6	177.5	23.0	7.97	5.7
8115	2:15:15	74.9	70.6	177.5	23.0	7.97	5.7
8130	2:15:30	75.2	70.6	177.2	23.0	7.96	5.7
8145	2:15:45	75.4	70.6	177.0	23.0	7.95	5.7
8160	2:16:00	75.6	70.5	177.1	22.5	7.95	5.7
8175	2:16:15	75.5	70.6	177.8	21.9	7.99	5.6
8190	2:16:30	75.4	70.7	177.5	21.4	7.98	5.8
8205	2:16:45	75.5	70.6	177.4	22.5	7.96	5.8
8220	2:17:00	75.7	70.6	177.6	22.5	7.96	5.7
8235	2:17:15	75.6	70.6	177.8	22.5	7.98	5.7
8250	2:17:30	75.5	70.6	177.6	21.9	7.99	5.7
8265	2:17:45	75.8	70.5	177.8	21.9	7.97	5.8
8280	2:18:00	75.6	70.5	178.3	21.9	8.00	5.7
8295	2:18:15	75.6	70.5	177.7	22.5	7.98	5.9
8310	2:18:30	75.8	70.5	177.4	22.5	7.96	5.8
8325	2:18:45	75.8	70.5	177.1	23.0	7.95	5.7
8340	2:19:00	75.9	70.5	177.0	23.0	7.96	5.6
8355	2:19:15	75.3	70.5	177.3	23.0	7.96	5.6
8370	2:19:30	75.5	70.5	178.4	22.5	8.00	5.7
8385	2:19:45	75.7	70.6	178.5	23.0	8.01	5.8
8400	2:20:00	75.8	70.5	178.0	23.0	7.97	5.9
8415	2:20:15	75.9	70.5	177.9	23.0	7.97	5.7
8430	2:20:30	75.7	70.5	178.1	23.0	7.97	5.7
8445	2:20:45	75.3	70.5	177.9	23.0	7.97	5.8
8460	2:21:00	75.5	70.5	178.1	23.5	7.97	5.8
8475	2:21:15	75.4	70.5	178.4	23.5	7.98	5.7
8490	2:21:30	75.4	70.5	178.6	24.1	7.97	5.7
8505	2:21:45	75.4	70.5	178.9	24.1	8.00	5.8
8520	2:22:00	75.8	70.5	179.0	23.0	8.01	5.8
8535	2:22:15	75.8	70.6	178.9	23.0	8.00	5.9
8550	2:22:30	76.0	70.5	178.7	23.5	7.98	5.9
8565	2:22:45	76.2	70.4	178.5	23.0	7.98	5.8
8580	2:23:00	75.8	70.5	178.3	22.5	7.97	5.8
8595	2:23:15	75.8	70.5	178.3	22.5	7.97	5.8

Comments

Start Mid Fire Equilibrium - #3

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
8610	2:23:30	76.0	70.5	178.0	22.5	7.97	5.7	
8625	2:23:45	75.4	70.5	178.0	23.0	7.96	5.7	
8640	2:24:00	75.5	70.6	178.1	22.5	7.96	5.7	
8655	2:24:15	75.3	70.5	178.2	22.5	7.96	5.7	
8670	2:24:30	75.8	70.6	178.4	22.5	7.97	5.7	
8685	2:24:45	75.6	70.5	178.5	23.0	7.97	5.7	
8700	2:25:00	75.8	70.6	178.5	23.0	7.97	5.7	
8715	2:25:15	75.7	70.5	178.4	23.0	7.97	5.7	
8730	2:25:30	76.1	70.5	178.7	23.1	7.97	5.7	
8745	2:25:45	76.2	70.5	179.2	23.0	7.98	5.7	
8760	2:26:00	76.6	70.6	179.6	23.0	7.98	5.7	
8775	2:26:15	76.9	70.4	179.4	21.9	7.99	5.8	
8790	2:26:30	76.4	70.5	179.5	22.5	7.98	5.7	
8805	2:26:45	76.0	70.5	179.2	23.0	7.98	5.7	
8820	2:27:00	75.9	70.5	178.9	22.5	7.96	5.7	End Mid Fire Equilibrium - #3
8835	2:27:15	76.0	70.5	178.8	22.5	7.97	5.7	
8850	2:27:30	75.7	70.6	178.8	21.9	7.97	5.7	
8865	2:27:45	75.8	70.6	178.9	22.5	7.97	5.7	
8880	2:28:00	75.5	70.7	178.8	23.0	7.96	5.7	Start Test - Mid Fire - #3
8895	2:28:15	75.5	70.6	178.8	23.0	7.96	5.6	
8910	2:28:30	75.4	70.6	178.9	23.0	7.97	5.6	
8925	2:28:45	75.6	70.6	178.6	23.5	7.95	5.6	
8940	2:29:00	75.5	70.6	178.6	23.0	7.96	5.6	
8955	2:29:15	75.6	70.6	178.6	23.0	7.96	5.6	
8970	2:29:30	75.8	70.6	179.0	22.5	7.96	5.6	
8985	2:29:45	75.8	70.6	179.2	22.5	7.97	5.7	
9000	2:30:00	75.5	70.6	179.4	21.9	7.98	5.7	
9015	2:30:15	75.6	70.5	180.0	20.9	8.00	5.7	
9030	2:30:30	75.7	70.7	179.6	19.8	8.00	5.8	
9045	2:30:45	75.6	70.6	179.8	19.8	7.99	5.8	
9060	2:31:00	75.4	70.6	179.9	19.8	7.99	5.7	
9075	2:31:15	75.4	70.6	180.0	20.9	7.98	5.8	
9090	2:31:30	75.3	70.6	179.9	20.9	7.98	5.8	
9105	2:31:45	75.8	70.6	180.2	20.9	7.99	5.8	
9120	2:32:00	75.9	70.7	180.0	21.4	7.98	5.8	
9135	2:32:15	75.8	70.7	180.1	19.8	8.01	5.7	
9150	2:32:30	75.7	70.7	180.2	20.3	8.00	5.7	
9165	2:32:45	76.0	70.7	180.3	20.9	8.00	5.8	
9180	2:33:00	76.2	70.7	180.3	20.9	7.99	5.7	
9195	2:33:15	76.2	70.7	180.3	21.4	8.00	5.7	
9210	2:33:30	76.7	70.6	180.3	20.9	8.00	5.7	
9225	2:33:45	76.5	70.7	180.0	20.9	7.98	5.8	
9240	2:34:00	76.4	70.6	180.2	20.9	7.99	5.8	
9255	2:34:15	76.0	70.7	180.2	20.9	8.01	5.7	
9270	2:34:30	76.2	70.7	180.2	20.3	7.99	5.8	
9285	2:34:45	75.7	70.7	180.2	20.9	7.99	5.8	
9300	2:35:00	75.7	70.7	180.2	21.4	7.99	5.8	
9315	2:35:15	75.6	70.7	180.2	21.4	7.99	5.7	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
9330	2:35:30	75.8	70.8	180.1	21.4	8.00	5.7
9345	2:35:45	75.8	70.7	180.0	20.3	8.01	5.8
9360	2:36:00	76.1	70.7	180.1	20.9	8.00	5.7
9375	2:36:15	75.8	70.7	180.3	20.9	8.01	5.7
9390	2:36:30	76.1	70.8	180.3	20.9	8.00	5.7
9405	2:36:45	76.4	70.7	180.3	20.9	8.01	5.8
9420	2:37:00	76.1	70.6	180.2	20.9	8.00	5.9
9435	2:37:15	76.2	70.8	180.3	20.9	8.01	5.7
9450	2:37:30	76.4	70.7	180.2	19.8	8.02	5.8
9465	2:37:45	76.5	70.7	180.3	19.3	8.02	5.8
9480	2:38:00	76.5	70.7	180.4	18.7	8.01	5.7
9495	2:38:15	76.3	70.7	180.6	19.3	8.01	5.8
9510	2:38:30	76.3	70.7	180.5	19.3	8.02	5.8
9525	2:38:45	75.6	70.7	180.6	19.8	7.99	5.7
9540	2:39:00	76.2	70.7	180.6	19.8	8.01	5.7
9555	2:39:15	76.3	70.8	180.6	20.3	8.01	5.9
9570	2:39:30	76.6	70.8	180.5	20.9	8.01	5.8
9585	2:39:45	76.8	70.7	180.4	20.3	8.01	5.7
9600	2:40:00	76.7	70.7	180.5	20.3	8.01	5.7
9615	2:40:15	76.7	70.7	180.7	19.3	8.01	5.8
9630	2:40:30	76.4	70.8	180.5	19.8	8.01	5.7
9645	2:40:45	76.5	70.8	180.5	19.8	8.00	5.8
9660	2:41:00	76.4	70.8	180.4	19.8	8.00	5.8
9675	2:41:15	76.0	70.8	180.5	19.8	8.00	5.8
9690	2:41:30	75.9	70.8	180.5	19.8	8.00	5.8
9705	2:41:45	75.8	70.8	180.3	19.3	7.99	5.8
9720	2:42:00	75.6	70.8	180.6	19.8	8.00	5.8
9735	2:42:15	75.6	70.9	180.8	19.8	7.99	5.8
9750	2:42:30	75.9	70.9	180.8	20.3	8.00	5.7
9765	2:42:45	75.7	70.9	180.6	20.9	8.01	5.8
9780	2:43:00	75.7	71.0	180.5	21.4	8.00	5.8
9795	2:43:15	76.0	71.0	180.7	21.4	8.00	5.8
9810	2:43:30	75.9	71.1	180.7	21.4	7.99	5.8
9825	2:43:45	76.3	71.1	180.6	21.4	7.99	5.8
9840	2:44:00	76.0	71.0	180.9	21.4	8.01	5.8
9855	2:44:15	75.8	71.0	180.8	21.4	8.01	5.8
9870	2:44:30	75.7	71.0	180.7	21.4	8.00	5.8
9885	2:44:45	75.5	71.0	180.7	20.3	7.99	5.9
9900	2:45:00	75.4	71.0	180.9	20.9	7.99	5.8
9915	2:45:15	75.4	71.0	180.7	21.4	8.01	5.7
9930	2:45:30	75.7	71.1	180.5	21.4	8.00	5.7
9945	2:45:45	76.0	71.0	180.4	21.4	7.98	5.7
9960	2:46:00	75.9	71.0	180.4	21.4	7.98	5.7
9975	2:46:15	75.8	71.0	180.5	20.9	7.98	5.7
9990	2:46:30	76.0	71.1	180.6	20.9	7.99	5.7
10005	2:46:45	76.0	71.1	180.4	21.4	7.99	5.7
10020	2:47:00	76.1	71.0	180.7	21.4	8.01	5.7
10035	2:47:15	76.0	71.0	180.7	21.4	8.00	5.8

Comments

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10050	2:47:30	75.9	71.0	180.7	21.9	8.00	5.8	
10065	2:47:45	75.9	71.0	180.7	21.4	7.99	5.8	
10080	2:48:00	75.7	71.1	180.7	21.4	7.99	5.8	
10095	2:48:15	75.9	71.0	180.6	20.9	8.00	5.7	
10110	2:48:30	75.8	71.0	180.4	20.9	7.99	5.7	
10125	2:48:45	76.2	71.1	180.4	21.4	7.98	5.7	
10140	2:49:00	76.5	71.0	180.2	21.4	7.98	5.7	
10155	2:49:15	76.3	71.0	180.5	20.9	7.99	5.6	
10170	2:49:30	76.4	71.1	180.5	21.4	7.99	5.7	
10185	2:49:45	76.4	71.1	180.5	21.4	7.99	5.8	
10200	2:50:00	76.0	71.0	180.6	21.4	7.99	5.8	
10215	2:50:15	75.9	71.0	180.5	21.4	7.99	5.7	
10230	2:50:30	75.5	71.0	180.7	20.9	7.99	5.7	
10245	2:50:45	75.8	71.0	180.6	20.3	8.00	5.8	
10260	2:51:00	76.1	70.9	180.6	20.9	8.00	5.8	
10275	2:51:15	76.0	70.9	180.6	20.9	7.99	5.7	
10290	2:51:30	76.1	71.0	180.9	20.9	8.00	5.7	
10305	2:51:45	75.9	71.0	180.7	20.9	7.99	5.8	
10320	2:52:00	76.0	71.0	180.8	20.9	8.00	5.8	
10335	2:52:15	76.4	71.0	180.8	21.9	8.00	5.7	
10350	2:52:30	76.3	71.0	180.8	21.9	7.99	5.8	
10365	2:52:45	75.9	71.0	180.8	21.9	8.00	5.8	
10380	2:53:00	76.1	71.0	180.7	21.4	8.00	5.8	
10395	2:53:15	75.8	70.9	180.4	21.4	7.99	5.8	
10410	2:53:30	75.9	71.0	180.7	20.9	7.99	5.8	
10425	2:53:45	75.5	71.0	181.0	20.9	8.01	5.8	
10440	2:54:00	75.9	71.1	180.8	21.9	8.00	5.8	
10455	2:54:15	75.7	71.1	180.5	20.9	7.98	5.8	
10470	2:54:30	75.9	71.1	180.8	20.9	7.99	5.7	
10485	2:54:45	76.3	71.1	180.9	21.4	7.99	5.7	
10500	2:55:00	76.4	71.1	181.2	21.4	8.01	5.8	Start Emissions
10515	2:55:15	76.6	71.0	180.9	20.9	8.02	5.8	
10530	2:55:30	76.6	71.0	181.0	20.9	7.99	5.8	
10545	2:55:45	76.7	71.0	180.9	20.9	8.00	5.8	
10560	2:56:00	76.8	71.0	181.2	19.8	8.01	5.8	1st Minute
10575	2:56:15	76.8	71.0	181.2	20.3	8.01	5.8	
10590	2:56:30	76.6	71.1	181.2	20.9	8.01	5.7	
10605	2:56:45	76.3	71.0	181.1	20.9	8.01	5.8	
10620	2:57:00	76.8	71.1	181.4	20.9	8.01	5.8	2nd Minute
10635	2:57:15	76.5	71.1	181.2	20.9	8.01	5.8	
10650	2:57:30	76.5	71.1	181.2	20.9	7.99	5.8	
10665	2:57:45	76.2	71.1	181.3	19.8	8.02	5.8	
10680	2:58:00	76.1	71.1	181.4	19.8	8.02	5.8	3rd Minute / EOT - Mid Fire - #3
10695	2:58:15	76.1	71.1	181.3	18.7	8.00	5.8	
10710	2:58:30	76.0	71.1	180.9	18.2	8.01	5.8	CO2 (Avg) % =
10725	2:58:45	76.4	71.1	180.8	19.3	8.00	5.8	8.01
10740	2:59:00	76.1	71.0	180.8	19.3	7.99	5.7	NOx (Avg) ppm =

Elapsed Time (sec) (hh:mm:ss)	Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10755	2:59:15	76.3	71.1	180.9	18.7	8.01	5.7
10770	2:59:30	75.9	71.1	180.9	18.7	8.01	5.8
10785	2:59:45	76.3	71.1	181.1	18.2	8.00	5.8
10800	3:00:00	76.1	71.2	180.9	18.2	8.01	5.8
10815	3:00:15	76.3	71.2	181.2	18.2	8.01	5.9
10830	3:00:30	76.2	71.2	180.9	18.7	7.99	5.8
10845	3:00:45	76.2	71.3	181.0	18.2	8.00	5.7
10860	3:01:00	76.3	71.3	181.1	18.2	8.01	5.7
10875	3:01:15	76.2	71.2	181.1	18.2	8.01	5.9
10890	3:01:30	76.3	71.3	181.2	17.7	8.01	5.9
10905	3:01:45	76.5	71.2	181.0	16.6	8.00	5.8
10920	3:02:00	76.3	71.1	181.2	17.7	8.01	5.8
10935	3:02:15	76.8	71.2	181.1	17.2	8.02	5.8
10950	3:02:30	76.5	71.2	181.0	17.1	8.00	5.9
10965	3:02:45	76.3	71.2	181.1	17.7	8.01	5.8
10980	3:03:00	76.3	71.2	180.7	19.3	7.99	5.8
10995	3:03:15	76.3	71.2	180.1	18.7	7.98	5.7
11010	3:03:30	76.3	71.2	180.1	19.3	7.97	5.7
11025	3:03:45	76.2	71.2	180.0	18.2	7.97	5.7
11040	3:04:00	76.7	71.1	180.3	17.1	7.99	5.6
11055	3:04:15	77.3	71.2	180.3	17.7	8.00	5.7
11070	3:04:30	76.7	71.1	180.0	18.7	7.99	5.7
11085	3:04:45	76.3	71.2	179.9	19.3	7.98	5.7
11100	3:05:00	76.3	71.2	179.6	19.3	7.96	5.7
11115	3:05:15	76.2	71.2	180.0	18.7	7.99	5.6
11130	3:05:30	76.0	71.2	180.0	17.7	7.98	5.7
11145	3:05:45	76.5	71.2	180.3	17.7	7.99	5.7
11160	3:06:00	76.3	71.2	180.4	18.7	7.99	5.6
11175	3:06:15	76.3	71.1	180.7	19.3	7.99	5.7
11190	3:06:30	76.6	71.2	181.2	18.2	8.01	5.7
11205	3:06:45	76.5	71.2	180.9	18.2	8.02	5.7
11220	3:07:00	76.2	71.1	181.1	18.7	8.00	5.8
11235	3:07:15	76.4	71.2	180.7	19.3	7.98	5.7
11250	3:07:30	76.3	71.2	180.8	19.3	7.99	5.6
11265	3:07:45	76.2	71.3	180.8	18.2	8.01	5.7
11280	3:08:00	76.7	71.2	180.8	18.2	8.01	5.7
11295	3:08:15	76.8	71.2	180.7	18.2	7.99	5.7
11310	3:08:30	76.7	71.2	180.6	19.3	7.99	5.7
11325	3:08:45	76.2	71.2	180.5	18.2	7.98	5.7
11340	3:09:00	75.9	71.2	180.8	19.3	8.00	5.6
11355	3:09:15	76.3	71.3	181.1	18.2	8.00	5.7
11370	3:09:30	76.4	71.2	181.0	17.7	8.00	5.7
11385	3:09:45	76.3	71.2	180.9	17.7	8.00	5.7
11400	3:10:00	76.5	71.2	180.8	18.7	7.99	5.7
11415	3:10:15	76.1	71.3	179.4	18.7	7.99	5.7
11430	3:10:30	76.3	71.3	148.1	90.3	5.33	5.7
11445	3:10:45	76.2	71.3	116.6	11.8	0.33	3.5
11460	3:11:00	76.4	71.2	98.6	0.5	0.15	1.4

Comments

5.8

CO (Max) ppm =

23.5

Ambient (Avg) F =

76.0

T_In (Avg) F =

70.9

T_Del (Avg) F =

180.4

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
11475	3:11:15	76.2	71.2	88.8	0.0	0.11	1.1
11490	3:11:30	76.6	71.2	84.5	0.0	0.09	1.1
11505	3:11:45	76.7	71.2	81.6	0.0	0.08	1.0
11520	3:12:00	76.3	71.3	79.6	0.0	0.07	0.9
11535	3:12:15	76.1	71.2	78.7	0.0	0.07	0.9
11550	3:12:30	75.9	71.2	77.8	0.0	0.06	0.9
11565	3:12:45	75.7	71.2	77.1	0.0	0.05	0.8
11580	3:13:00	76.2	71.2	76.7	0.0	0.05	0.8
11595	3:13:15	76.3	71.2	76.3	0.0	0.05	0.7
11610	3:13:30	76.1	71.2	75.9	0.0	0.05	0.7
11625	3:13:45	76.0	71.2	75.7	0.0	0.05	0.7
11640	3:14:00	75.9	71.2	75.6	0.0	0.05	0.7
11655	3:14:15	76.1	71.2	75.5	0.0	0.05	0.6
11670	3:14:30	75.9	71.2	75.2	0.0	0.05	0.7
11685	3:14:45	76.4	71.1	74.9	0.0	0.05	0.6
11700	3:15:00	76.5	71.1	74.4	0.0	0.05	0.5
11715	3:15:15	76.2	71.1	74.0	0.0	0.05	0.4
11730	3:15:30	76.0	71.1	73.8	0.0	0.05	0.4
11745	3:15:45	76.5	71.2	73.7	0.0	0.05	0.4
11760	3:16:00	76.0	71.1	73.7	0.0	0.05	0.4
11775	3:16:15	76.1	71.2	73.7	0.0	0.06	0.4
11790	3:16:30	75.9	71.1	73.6	0.0	0.05	0.4
11805	3:16:45	76.0	71.0	73.6	0.0	0.05	0.4
11820	3:17:00	76.0	71.1	74.0	0.0	0.05	0.4
11835	3:17:15	75.9	71.0	75.0	51.0	0.43	0.4
11850	3:17:30	76.1	71.0	74.6	2.2	0.07	0.5
11865	3:17:45	76.1	71.0	74.8	0.0	0.05	0.5
11880	3:18:00	76.3	71.0	76.0	78.3	0.56	0.3
11895	3:18:15	75.8	71.0	75.1	4.4	0.07	1.0
11910	3:18:30	75.5	71.0	82.8	0.0	0.05	0.6
11925	3:18:45	76.2	70.9	111.7	315.9	4.68	0.3
11940	3:19:00	76.3	70.9	135.4	95.1	7.92	0.3
11955	3:19:15	76.0	70.9	147.7	45.9	8.52	3.7
11970	3:19:30	75.8	70.7	153.5	41.6	8.64	6.3
11985	3:19:45	75.7	70.5	156.4	42.2	8.70	9.5
12000	3:20:00	76.0	70.3	151.1	42.7	8.72	10.0
12015	3:20:15	76.3	70.3	142.1	28.9	8.50	10.5
12030	3:20:30	76.1	70.3	134.7	16.6	8.19	9.3
12045	3:20:45	77.0	70.3	142.2	9.2	7.80	6.6
12060	3:21:00	77.0	70.3	148.2	7.6	7.69	5.0
12075	3:21:15	76.2	70.3	150.2	9.2	7.66	4.4
12090	3:21:30	75.9	70.3	149.1	11.3	7.64	4.3
12105	3:21:45	76.3	70.3	142.8	34.2	7.18	4.1
12120	3:22:00	77.4	70.4	140.8	68.6	6.91	4.1
12135	3:22:15	77.2	70.5	142.6	91.2	6.85	2.4
12150	3:22:30	77.9	70.5	143.1	102.6	6.82	2.3
12165	3:22:45	76.5	70.6	142.7	120.4	6.79	2.2
12180	3:23:00	76.7	70.6	138.5	232.1	6.51	2.1

Comments

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12195	3:23:15	76.8	70.6	134.9	471.2	6.20	2.0	
12210	3:23:30	77.5	70.6	133.0	526.8	6.22	2.0	
12225	3:23:45	77.2	70.6	131.5	560.2	6.21	2.0	
12240	3:24:00	77.4	70.7	130.2	616.5	6.14	2.0	
12255	3:24:15	76.6	70.7	112.4	408.3	4.10	2.1	
12270	3:24:30	76.1	70.8	95.5	47.6	0.25	1.9	
12285	3:24:45	76.3	70.8	86.7	6.5	0.13	1.1	
12300	3:25:00	76.5	70.8	81.9	0.0	0.09	0.6	
12315	3:25:15	77.1	70.8	79.6	0.0	0.07	0.6	
12330	3:25:30	76.7	70.8	78.1	0.0	0.07	0.6	
12345	3:25:45	76.1	70.9	77.6	36.1	0.19	0.5	
12360	3:26:00	76.0	70.9	76.9	3.8	0.08	0.5	
12375	3:26:15	76.9	71.0	76.2	0.0	0.05	0.5	
12390	3:26:30	77.4	70.9	75.6	0.0	0.05	0.4	
12405	3:26:45	77.7	70.9	75.2	0.0	0.05	0.5	
12420	3:27:00	77.9	71.0	74.9	0.0	0.04	0.6	
12435	3:27:15	77.3	71.0	74.6	0.0	0.04	0.4	
12450	3:27:30	76.3	71.0	74.4	0.0	0.07	0.4	
12465	3:27:45	77.2	71.0	74.1	0.0	0.03	0.8	
12480	3:28:00	76.8	71.0	73.8	0.0	0.00	1.1	Start Zero OUT
12495	3:28:15	77.0	71.0	73.5	0.0	0.00	0.1	
12510	3:28:30	77.4	70.9	73.4	0.0	0.00	0.0	
12525	3:28:45	77.6	71.0	73.3	0.0	0.00	0.0	
12540	3:29:00	77.7	70.9	73.1	0.0	0.00	0.0	
12555	3:29:15	77.2	70.9	72.9	0.0	0.00	0.0	
12570	3:29:30	77.1	70.9	72.8	0.0	0.00	0.0	
12585	3:29:45	76.5	70.9	72.7	0.0	0.00	0.0	
12600	3:30:00	76.9	70.9	74.1	0.0	0.00	0.0	
12615	3:30:15	77.4	70.9	74.5	0.0	0.00	0.0	
12630	3:30:30	77.1	70.8	73.4	0.0	0.00	0.0	
12645	3:30:45	77.3	70.7	72.7	0.0	0.00	0.0	
12660	3:31:00	77.3	70.6	72.4	0.0	0.00	0.0	
12675	3:31:15	77.5	70.6	72.3	0.0	0.00	0.0	
12690	3:31:30	77.5	70.6	72.3	0.0	0.00	0.0	
12705	3:31:45	77.7	70.5	72.8	0.0	0.00	0.0	
12720	3:32:00	76.3	70.5	73.8	0.0	0.00	0.0	
12735	3:32:15	76.3	70.4	72.8	0.0	0.00	0.0	
12750	3:32:30	76.8	70.4	73.1	0.0	0.00	0.0	
12765	3:32:45	76.1	70.4	73.7	0.0	0.00	0.0	
12780	3:33:00	75.6	70.4	72.6	0.0	0.00	0.0	Analyzer Zero OUT
12795	3:33:15	75.8	70.4	72.2	0.0	0.00	0.0	
12810	3:33:30	76.4	70.4	73.2	68.3	0.00	0.0	
12825	3:33:45	75.4	70.3	72.3	810.0	8.84	1.0	
12840	3:34:00	74.8	70.3	72.1	950.8	9.42	2.0	
12855	3:34:15	75.3	70.3	73.8	962.5	9.48	25.5	
12870	3:34:30	75.9	70.3	72.5	966.3	9.49	25.6	
12885	3:34:45	76.6	70.3	73.0	967.9	9.49	25.7	
12900	3:35:00	76.7	70.3	72.1	968.4	9.50	25.7	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12915	3:35:15	76.9	70.3	71.9	968.4	9.50	25.9	
12930	3:35:30	75.8	70.2	73.3	968.7	9.50	25.9	
12945	3:35:45	76.3	70.2	72.1	968.9	9.50	25.9	
12960	3:36:00	76.8	70.2	71.9	968.9	9.50	25.9	Start High Span OUT
12975	3:36:15	76.5	70.1	73.1	969.1	9.50	25.9	
12990	3:36:30	75.8	70.1	71.9	968.9	9.50	26.0	
13005	3:36:45	74.9	70.1	71.7	969.5	9.50	26.1	
13020	3:37:00	74.7	70.1	73.0	969.5	9.50	26.1	
13035	3:37:15	74.8	70.0	71.9	969.5	9.50	26.1	
13050	3:37:30	74.9	70.0	71.6	969.5	9.50	26.1	
13065	3:37:45	74.3	69.9	73.2	969.4	9.50	26.1	
13080	3:38:00	74.5	69.9	72.1	969.5	9.50	26.1	
13095	3:38:15	75.2	69.9	71.4	969.4	9.50	26.1	
13110	3:38:30	75.0	69.9	71.1	969.4	9.50	26.1	
13125	3:38:45	74.5	69.9	71.0	969.5	9.50	26.1	
13140	3:39:00	74.5	69.9	71.2	969.4	9.50	26.1	
13155	3:39:15	75.8	70.0	73.1	969.4	9.50	26.1	
13170	3:39:30	76.5	69.9	71.8	969.4	9.50	26.1	
13185	3:39:45	76.6	70.0	71.5	969.5	9.50	26.1	
13200	3:40:00	76.2	69.8	72.9	968.9	9.50	26.1	
13215	3:40:15	76.1	69.9	71.8	969.5	9.50	26.1	
13230	3:40:30	76.0	69.8	71.4	969.5	9.50	26.1	
13245	3:40:45	75.4	69.8	73.1	968.9	9.50	26.1	
13260	3:41:00	75.2	69.8	71.7	969.5	9.50	26.1	Analyzer High Span OUT
13275	3:41:15	75.8	69.8	71.3	969.4	9.50	26.1	
13290	3:41:30	76.3	69.7	73.0	969.4	9.50	26.1	
13305	3:41:45	75.8	69.8	71.7	966.8	9.50	26.1	
13320	3:42:00	75.2	69.8	71.3	585.5	5.41	26.1	
13335	3:42:15	75.1	69.8	73.0	507.4	5.04	15.5	
13350	3:42:30	75.5	69.8	72.0	499.9	5.01	14.9	
13365	3:42:45	74.8	69.7	71.2	497.8	5.01	14.2	
13380	3:43:00	74.5	69.7	70.9	497.3	5.01	14.2	
13395	3:43:15	74.6	69.7	70.8	497.3	5.01	14.2	
13410	3:43:30	74.7	69.8	70.8	496.8	5.01	14.2	
13425	3:43:45	74.3	69.7	70.8	496.7	5.01	14.2	
13440	3:44:00	74.2	69.7	70.8	496.7	5.01	14.2	Start Mid Span OUT
13455	3:44:15	74.8	69.7	70.8	497.3	5.01	14.2	
13470	3:44:30	75.3	69.7	70.8	496.7	5.01	14.2	
13485	3:44:45	75.4	69.8	70.9	496.7	5.01	14.2	
13500	3:45:00	75.3	69.7	70.8	496.7	5.01	14.2	
13515	3:45:15	74.9	69.7	70.8	497.3	5.01	14.2	
13530	3:45:30	74.4	69.6	70.7	497.3	5.01	14.2	
13545	3:45:45	74.9	69.6	70.7	496.7	5.01	14.2	
13560	3:46:00	75.0	69.6	70.7	496.7	5.01	14.2	
13575	3:46:15	74.6	69.6	70.6	497.3	5.01	14.2	
13590	3:46:30	75.4	69.6	70.6	497.3	5.01	14.2	
13605	3:46:45	75.3	69.5	72.1	497.3	5.01	14.2	
13620	3:47:00	75.2	69.6	71.7	497.3	5.01	14.2	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13635	3:47:15	75.0	69.5	71.1	497.3	5.01	14.2	
13650	3:47:30	74.4	69.5	72.8	497.8	5.01	14.2	
13665	3:47:45	74.4	69.5	72.5	497.3	5.01	14.2	
13680	3:48:00	73.9	69.4	71.3	497.8	5.01	14.2	
13695	3:48:15	75.0	69.4	70.7	497.3	5.01	14.2	
13710	3:48:30	75.2	69.4	72.5	497.3	5.01	14.2	
13725	3:48:45	74.8	69.3	71.5	497.3	5.01	14.2	
13740	3:49:00	75.2	69.3	70.9	497.3	5.01	14.2	Analyzer Mid Span OUT
13755	3:49:15	75.6	69.4	82.5	497.8	5.01	14.2	
13770	3:49:30	75.7	69.3	107.1	497.3	5.01	14.1	
13785	3:49:45	74.8	69.4	132.9	496.7	5.00	14.1	
13800	3:50:00	74.7	69.3	148.7	352.3	3.66	14.1	
13815	3:50:15	74.3	69.3	155.9	249.7	2.61	12.2	
13830	3:50:30	74.1	69.3	159.7	241.8	2.58	9.5	
13845	3:50:45	74.4	69.2	162.1	239.6	2.58	6.8	
13860	3:51:00	74.6	69.2	163.8	239.1	2.57	6.8	
13875	3:51:15	74.7	69.2	164.8	238.6	2.57	6.8	
13890	3:51:30	74.7	69.2	165.8	238.6	2.57	6.8	
13905	3:51:45	74.5	69.2	168.3	238.6	2.57	6.8	
13920	3:52:00	74.4	69.2	186.5	238.6	2.57	6.8	Start Low Span OUT
13935	3:52:15	74.7	69.2	196.4	238.6	2.57	6.7	
13950	3:52:30	74.5	69.2	187.4	238.6	2.57	6.7	
13965	3:52:45	74.9	69.2	177.7	238.6	2.57	6.7	
13980	3:53:00	75.2	69.1	170.0	238.6	2.57	6.7	
13995	3:53:15	75.6	69.2	166.8	238.6	2.57	6.7	
14010	3:53:30	75.4	69.2	164.7	238.6	2.57	6.7	
14025	3:53:45	75.5	69.2	163.5	238.6	2.57	6.7	
14040	3:54:00	74.6	69.2	162.5	238.6	2.57	6.7	
14055	3:54:15	74.5	69.2	161.9	238.6	2.57	6.7	
14070	3:54:30	74.6	69.2	151.2	238.6	2.57	6.7	
14085	3:54:45	74.9	69.2	148.0	238.6	2.57	6.7	
14100	3:55:00	75.0	69.1	157.3	238.6	2.57	6.7	
14115	3:55:15	74.7	69.2	159.9	238.6	2.57	6.7	
14130	3:55:30	75.1	69.2	161.0	238.6	2.57	6.7	
14145	3:55:45	74.7	69.2	161.0	238.6	2.57	6.7	
14160	3:56:00	74.5	69.2	160.6	238.6	2.57	6.7	
14175	3:56:15	74.5	69.2	160.3	238.6	2.57	6.7	
14190	3:56:30	75.0	69.2	159.9	238.6	2.57	6.7	
14205	3:56:45	75.1	69.4	159.4	238.6	2.57	6.7	
14220	3:57:00	74.9	69.4	159.2	238.6	2.57	6.7	Analyzer Low Span OUT
14235	3:57:15	75.0	69.4	158.8	238.6	2.57	6.7	
14250	3:57:30	75.0	69.4	156.8	238.6	2.57	6.7	
14265	3:57:45	75.7	69.4	154.2	238.6	2.57	6.7	
14280	3:58:00	74.8	69.5	152.6	146.9	2.04	6.6	
14295	3:58:15	74.7	69.4	151.5	10.8	0.09	6.8	
14310	3:58:30	74.4	69.5	150.9	0.0	0.02	3.5	
14325	3:58:45	74.2	69.5	150.2	0.0	0.00	0.3	
14340	3:59:00	74.6	69.5	147.8	0.0	0.00	0.3	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
14355	3:59:15	74.9	69.5	143.7	0.0	0.00	0.2	
14370	3:59:30	74.8	69.6	141.3	0.0	0.00	0.2	
14385	3:59:45	74.8	69.5	139.7	0.0	0.00	0.2	
14400	4:00:00	74.7	69.6	138.6	0.0	0.00	0.2	Start Zero Bias OUT
14415	4:00:15	74.7	69.6	137.7	0.0	0.00	0.2	
14430	4:00:30	75.0	69.6	137.0	0.0	0.00	0.2	
14445	4:00:45	74.9	69.5	136.2	0.0	0.00	0.2	
14460	4:01:00	74.9	69.5	135.7	0.0	0.00	0.2	
14475	4:01:15	74.3	69.5	135.3	0.0	0.00	0.2	
14490	4:01:30	74.4	69.5	135.0	0.0	0.00	0.2	
14505	4:01:45	74.5	69.5	134.7	0.0	0.00	0.2	
14520	4:02:00	74.1	69.5	134.7	0.0	0.00	0.2	
14535	4:02:15	74.2	69.5	134.5	0.0	0.00	0.1	
14550	4:02:30	74.5	69.4	134.5	0.0	0.00	0.1	
14565	4:02:45	74.9	69.5	134.4	0.0	0.00	0.1	
14580	4:03:00	74.6	69.4	134.3	0.0	0.00	0.1	
14595	4:03:15	74.6	69.4	134.3	0.0	0.00	0.1	
14610	4:03:30	74.5	69.4	134.2	0.0	0.00	0.1	
14625	4:03:45	74.6	69.4	133.8	0.0	0.00	0.1	
14640	4:04:00	74.1	69.5	132.6	0.0	0.00	0.1	
14655	4:04:15	74.5	69.4	134.7	0.0	0.00	0.1	
14670	4:04:30	74.8	69.5	136.9	0.0	0.00	0.1	
14685	4:04:45	75.3	69.5	138.1	0.0	0.00	0.1	
14700	4:05:00	75.3	69.4	138.9	0.0	0.00	0.1	System Zero OUT
14715	4:05:15	75.0	69.4	139.3	0.0	0.00	0.1	
14730	4:05:30	75.7	69.4	139.5	0.0	0.00	0.1	
14745	4:05:45	75.3	69.4	139.5	0.0	0.01	0.1	
14760	4:06:00	75.6	69.4	139.3	145.0	0.88	0.1	
14775	4:06:15	75.4	69.5	139.3	445.2	4.80	0.1	
14790	4:06:30	75.2	69.4	139.5	480.3	4.93	0.1	
14805	4:06:45	75.0	69.5	139.4	486.6	4.97	0.1	
14820	4:07:00	75.5	69.5	139.2	488.8	4.98	0.1	
14835	4:07:15	75.2	69.4	139.1	489.3	4.98	0.1	
14850	4:07:30	75.1	69.6	139.2	489.8	4.98	0.1	
14865	4:07:45	75.1	69.5	140.7	489.8	4.99	0.1	
14880	4:08:00	74.9	69.5	142.4	489.8	4.99	0.1	Start Mid CO/CO2 Bias OUT
14895	4:08:15	75.1	69.6	128.3	489.8	4.99	0.1	
14910	4:08:30	74.4	69.6	107.1	489.8	4.99	0.1	
14925	4:08:45	74.0	69.6	94.6	490.4	4.99	0.1	
14940	4:09:00	74.4	69.6	86.9	490.4	5.00	0.1	
14955	4:09:15	74.9	69.6	82.9	490.4	5.00	0.1	
14970	4:09:30	74.8	69.6	80.1	490.4	4.99	0.1	
14985	4:09:45	74.9	69.6	78.2	489.8	4.99	0.1	
15000	4:10:00	74.8	69.7	77.1	489.8	5.00	0.1	
15015	4:10:15	74.8	69.7	76.3	489.8	5.00	0.1	
15030	4:10:30	74.4	69.7	75.4	490.4	5.00	0.1	
15045	4:10:45	74.2	69.7	75.0	490.4	5.00	0.1	
15060	4:11:00	74.4	69.7	74.6	490.4	5.00	0.1	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15075	4:11:15	74.3	69.7	74.1	489.8	5.00	0.1	
15090	4:11:30	74.1	69.6	73.9	490.4	5.00	0.1	
15105	4:11:45	74.4	69.7	73.8	490.4	5.00	0.1	
15120	4:12:00	74.7	69.7	73.6	490.4	5.00	0.1	
15135	4:12:15	74.2	69.7	73.5	490.4	5.00	0.1	
15150	4:12:30	74.5	69.7	73.1	490.4	5.00	0.1	
15165	4:12:45	74.2	69.7	72.9	490.4	5.00	0.1	
15180	4:13:00	74.5	69.7	72.6	490.4	5.00	0.1	System Mid CO/CO2 OUT
15195	4:13:15	74.5	69.7	72.3	490.4	5.00	0.1	
15210	4:13:30	74.4	69.7	72.2	490.4	5.00	0.1	
15225	4:13:45	74.7	69.7	72.2	490.4	5.00	0.1	
15240	4:14:00	74.9	69.7	72.1	489.8	5.00	0.1	
15255	4:14:15	74.6	69.8	72.1	490.4	5.00	0.1	
15270	4:14:30	74.5	69.7	72.0	490.4	5.00	0.1	
15285	4:14:45	74.5	69.7	72.0	490.4	5.00	0.1	
15300	4:15:00	74.7	69.8	72.0	490.4	5.00	0.1	
15315	4:15:15	75.0	69.8	72.0	224.5	2.46	0.1	
15330	4:15:30	74.3	69.8	71.9	152.9	1.50	0.1	
15345	4:15:45	74.4	69.8	71.9	225.3	2.53	0.1	
15360	4:16:00	74.6	69.7	72.0	231.7	2.57	0.0	
15375	4:16:15	74.6	69.8	71.9	233.8	2.57	0.0	
15390	4:16:30	74.6	69.7	71.9	234.3	2.57	0.0	
15405	4:16:45	74.4	69.7	71.9	234.8	2.57	0.0	
15420	4:17:00	74.4	69.7	71.9	234.9	2.57	0.0	Start Low CO/CO2 Bias OUT
15435	4:17:15	74.2	69.8	71.8	234.9	2.57	0.0	
15450	4:17:30	74.4	69.8	71.8	234.9	2.57	0.0	
15465	4:17:45	74.6	69.8	71.8	234.9	2.57	0.0	
15480	4:18:00	75.2	69.7	71.8	234.9	2.57	0.0	
15495	4:18:15	75.2	69.7	71.7	234.9	2.57	0.0	
15510	4:18:30	75.5	69.7	71.7	234.9	2.57	0.0	
15525	4:18:45	75.8	69.7	71.7	234.9	2.57	0.0	
15540	4:19:00	74.8	69.7	71.7	234.3	2.57	0.0	
15555	4:19:15	74.8	69.7	71.6	234.8	2.57	0.0	
15570	4:19:30	74.3	69.7	71.6	234.3	2.57	0.0	
15585	4:19:45	74.7	69.7	71.6	234.3	2.57	0.0	
15600	4:20:00	74.8	69.7	71.6	234.3	2.57	0.0	
15615	4:20:15	74.9	69.7	71.6	234.3	2.57	0.0	
15630	4:20:30	74.5	69.7	71.6	234.3	2.57	0.0	
15645	4:20:45	73.9	69.7	71.6	234.3	2.57	0.0	
15660	4:21:00	74.5	69.7	71.5	234.3	2.57	0.0	
15675	4:21:15	74.3	69.6	71.5	234.8	2.57	0.0	
15690	4:21:30	74.5	69.7	71.6	234.9	2.57	0.0	
15705	4:21:45	74.9	69.7	71.6	234.9	2.57	0.0	
15720	4:22:00	75.1	69.7	71.6	234.9	2.57	0.0	System Low CO/CO2 OUT
15735	4:22:15	74.9	69.7	71.6	234.9	2.57	0.0	
15750	4:22:30	74.4	69.7	71.6	234.3	2.57	0.0	
15765	4:22:45	74.3	69.6	71.5	126.5	1.70	0.0	
15780	4:23:00	74.2	69.6	71.5	10.8	0.13	0.0	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
15795	4:23:15	74.6	69.7	71.5	0.0	0.03	0.0	
15810	4:23:30	74.8	69.7	71.3	0.0	0.02	6.7	
15825	4:23:45	75.1	69.7	71.3	0.0	0.02	13.5	
15840	4:24:00	75.0	69.7	71.2	0.0	0.02	13.7	
15855	4:24:15	75.4	69.7	71.2	0.0	0.02	13.8	
15870	4:24:30	75.6	69.8	71.2	0.0	0.02	13.8	
15885	4:24:45	74.7	69.8	71.1	0.0	0.02	13.9	
15900	4:25:00	75.0	69.8	71.1	0.0	0.02	13.9	Start Mid NOx Bias OUT
15915	4:25:15	75.3	69.8	71.0	0.0	0.02	13.9	
15930	4:25:30	75.1	69.8	71.0	0.0	0.02	13.9	
15945	4:25:45	74.7	69.9	71.0	0.0	0.02	13.9	
15960	4:26:00	75.1	69.8	71.0	0.0	0.02	13.9	
15975	4:26:15	75.2	69.9	71.0	0.0	0.02	13.9	
15990	4:26:30	74.8	69.9	71.1	0.0	0.02	13.9	
16005	4:26:45	74.7	69.9	71.0	0.0	0.03	13.9	
16020	4:27:00	75.6	69.9	71.0	0.0	0.03	13.9	
16035	4:27:15	75.7	69.9	71.1	0.0	0.03	13.9	
16050	4:27:30	75.6	70.0	71.1	0.0	0.03	13.9	
16065	4:27:45	74.8	70.0	71.1	0.0	0.03	13.9	
16080	4:28:00	74.9	70.0	71.0	0.0	0.03	13.9	
16095	4:28:15	74.4	70.0	71.1	0.0	0.03	13.9	
16110	4:28:30	74.8	70.0	71.1	0.0	0.03	13.9	
16125	4:28:45	74.2	69.9	71.1	0.0	0.03	13.9	
16140	4:29:00	74.4	70.0	71.1	0.0	0.04	13.9	
16155	4:29:15	74.1	69.9	71.1	0.0	0.04	13.9	
16170	4:29:30	73.9	70.0	71.1	0.0	0.04	13.9	
16185	4:29:45	74.8	70.0	71.0	0.0	0.04	13.9	
16200	4:30:00	74.1	69.9	71.0	0.0	0.04	13.9	System Mid NOx OUT
16215	4:30:15	74.4	70.0	71.0	0.0	0.04	13.9	
16230	4:30:30	74.1	70.0	71.0	0.0	0.04	13.9	
16245	4:30:45	74.4	69.9	71.1	0.0	0.04	13.9	
16260	4:31:00	74.5	69.9	71.0	0.0	0.05	13.9	
16275	4:31:15	74.7	70.0	71.1	0.0	0.05	13.2	
16290	4:31:30	75.3	70.0	71.0	0.0	0.05	7.0	
16305	4:31:45	75.6	70.0	71.1	0.0	0.05	1.0	
16320	4:32:00	75.2	70.1	71.1	0.0	0.06	1.3	
16335	4:32:15	74.9	70.0	71.1	0.0	0.06	6.5	
16350	4:32:30	74.9	70.1	71.2	0.0	0.06	6.5	
16365	4:32:45	75.2	70.1	71.1	0.0	0.05	6.6	
16380	4:33:00	75.8	70.0	71.1	0.0	0.06	6.6	Start Low NOx Bias OUT
16395	4:33:15	76.2	70.1	71.1	0.0	0.06	6.6	
16410	4:33:30	76.3	70.0	71.1	0.0	0.06	6.6	
16425	4:33:45	75.1	70.1	71.1	0.0	0.06	6.6	
16440	4:34:00	74.8	70.1	71.1	0.0	0.07	6.6	
16455	4:34:15	74.7	70.1	71.2	0.0	0.07	6.6	
16470	4:34:30	74.9	70.1	71.2	0.0	0.07	6.6	
16485	4:34:45	74.7	70.2	71.2	0.0	0.07	6.6	
16500	4:35:00	74.5	70.2	71.2	0.0	0.07	6.6	

Manufacturer: RIELLO

Date: July 9, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
16515	4:35:15	74.4	70.1	71.1	0.0	0.07	6.6
16530	4:35:30	74.2	70.2	71.2	0.0	0.07	6.6
16545	4:35:45	74.4	70.3	71.2	0.0	0.07	6.6
16560	4:36:00	74.4	70.2	71.2	0.0	0.08	6.6
16575	4:36:15	74.3	70.2	71.2	0.0	0.08	6.6
16590	4:36:30	74.1	70.2	71.2	0.0	0.08	6.6
16605	4:36:45	74.5	70.2	71.2	0.0	0.08	6.6
16620	4:37:00	74.7	70.2	71.1	0.0	0.08	6.6
16635	4:37:15	74.2	70.2	71.2	0.0	0.08	6.6
16650	4:37:30	74.6	70.2	71.2	0.0	0.08	6.6
16665	4:37:45	75.6	70.2	71.1	0.0	0.08	6.6
16680	4:38:00	75.3	70.2	71.2	0.0	0.09	6.6
16695	4:38:15	75.2	70.2	71.2	0.0	0.09	6.6
16710	4:38:30	75.2	70.2	71.2	0.0	0.09	6.6
16725	4:38:45	74.8	70.2	71.2	0.0	0.09	6.6
16740	4:39:00	75.0	70.2	71.2	0.0	0.09	6.6
16755	4:39:15	74.8	70.2	71.2	0.0	0.09	6.6
16770	4:39:30	74.5	70.2	71.1	0.0	0.09	6.6
16785	4:39:45	75.2	70.2	71.1	0.0	0.09	6.6
16800	4:40:00	75.1	70.2	71.2	0.0	0.09	6.6
Average =		75.1					

Comments

System Low NOx OUT

APPENDIX D

Test Results for:

SSB 85

Low Run#: 1 & 2

Date: July 10, 2015

Test #1

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Minimum Rate

Input Rate = 17,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	77.8	77.2	OF
Relative Humidity	48	48	%
Barometer	29.05	29.05	in.Hg
Heating Value	1085	1085	BTU/ft3
Inlet Pressure	7.2	7.2	in.w.c.
Manifold Pressure	-0.1	-0.1	in.w.c.
Gas Meter Reading	502.15	510.48	ft3
Gas Temperature	76.0	76.0	OF
Water Meter Reading	699136.0	699165.2	gal

Mass	238.8	lb
Di	8.179	lb/gal
Dn	8.138	lb/gal

Tin	150.4	OF
Tdel	180.4	OF

Calculations		
Test Start	2:58:00	h:mm:ss
Test End	3:28:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	17,291	BTU/hr
Cf	1.095	no units
Ho	7,150	BTU
Uncorrected Volume	8.33	ft3
Pressure Correction	0.986	no units
Meter Correction	1.000	no units
Temperature Correction	0.970	no units
F	7.97	ft3
C	8.2	%
P	7.5	ppm

N = 5.8 ng/J
9.4 ppm @ 3% O2

Date: July 10, 2015

Test #2

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Minimum Rate

Input Rate = 17,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	79.4	78.2	OF
Relative Humidity	48	48	%
Barometer	29.02	29.02	in.Hg
Heating Value	1087	1087	BTU/ft3
Inlet Pressure	7.2	7.2	in.w.c.
Manifold Pressure	-0.1	-0.1	in.w.c.
Gas Meter Reading	533.53	541.88	ft3
Gas Temperature	77.0	77.0	OF
Water Meter Reading	699262.0	699286.0	gal

Mass	196.5	lb
Di	8.188	lb/gal
Dn	8.144	lb/gal

Tin	146.7	OF
Tdel	180.3	OF

Calculations		
Test Start	5:08:00	h:mm:ss
Test End	5:38:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	17,315	BTU/hr
Cf	1.098	no units
Ho	6,590	BTU
Uncorrected Volume	8.35	ft3
Pressure Correction	0.985	no units
Meter Correction	1.000	no units
Temperature Correction	0.968	no units
F	7.96	ft3
C	8.0	%
P	6.5	ppm

N = 5.6 ng/J
8.3 ppm @ 3% O2

Date: July 10, 2015

Low Run#: 1 & 2

Manufacturer: RIELLO
Model No.: SSB 85
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	0.05			-0.17
NOx Low	6.95	6.89			0.20	6.77			0.60
NOx Mid	14.56	14.50			0.20	14.25			1.03
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		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	0.72			237	1.20
CO Mid	502.5			501	0.15			494	0.90
CO High	976			975	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	0.02			-0.07	0.22			-0.73	0.57
NOx Low	6.95	6.86			0.30	6.74			0.70	-0.10
NOx Mid	14.56	14.46			0.33	14.21			1.17	-0.13
NOx High	26.66	26.65			0.03					
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		5.01		-0.03		4.99		0.17	0.00
CO2 High	9.488		9.48		0.08					
CO Zero	0			0	0.00			0.0	0.00	0.00
CO Low	249.0			236	1.25			231	1.79	-0.59
CO Mid	502.5			494	0.85			487	1.60	-0.70
CO High	976			965	1.10					

Calibration Linearity

NOx Pretest	0.400
CO2 Pretest	-0.019
CO Pretest	0.114

NOx Post Test	0.279
CO2 Post Test	-0.072
CO Post Test	0.287

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

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	73.5	71.7	72.3	0.0	0.00	0.0	
15	0:00:15	73.1	71.8	72.2	0.0	0.00	0.0	
30	0:00:30	73.0	71.7	72.2	0.0	0.00	0.0	
45	0:00:45	73.0	71.7	72.2	0.0	0.00	0.0	
60	0:01:00	73.4	71.6	72.2	0.0	0.00	0.0	Start Zero IN
75	0:01:15	73.4	71.6	72.2	0.0	0.00	0.0	
90	0:01:30	73.3	71.5	72.2	0.0	0.00	0.0	
105	0:01:45	73.2	71.6	72.2	0.0	0.00	0.0	
120	0:02:00	73.1	71.6	72.2	0.0	0.00	0.0	
135	0:02:15	73.1	71.6	72.2	0.0	0.00	0.0	
150	0:02:30	73.1	71.7	72.2	0.0	0.00	0.0	
165	0:02:45	73.1	71.6	72.2	0.0	0.00	0.0	
180	0:03:00	73.3	71.6	72.2	0.0	0.00	0.0	
195	0:03:15	73.3	71.6	72.2	0.0	0.00	0.0	
210	0:03:30	73.2	71.6	72.2	0.0	0.00	0.0	
225	0:03:45	73.2	71.6	72.2	0.0	0.00	0.0	
240	0:04:00	73.2	71.6	72.2	0.0	0.00	0.0	
255	0:04:15	73.3	71.6	72.2	0.0	0.00	0.0	
270	0:04:30	73.3	71.6	72.2	0.0	0.00	0.0	
285	0:04:45	73.3	71.6	72.2	0.0	0.00	0.0	
300	0:05:00	73.4	71.6	72.2	0.0	0.00	0.0	
315	0:05:15	73.7	71.6	72.2	0.0	0.00	0.0	
330	0:05:30	73.6	71.6	72.2	0.0	0.00	0.0	
345	0:05:45	73.4	71.6	72.2	0.0	0.00	0.0	
360	0:06:00	73.5	71.6	72.2	0.0	0.00	0.0	Analyzer Zero IN
375	0:06:15	73.6	71.6	72.3	0.0	0.00	0.0	
390	0:06:30	73.8	71.6	72.2	0.0	0.00	0.0	
405	0:06:45	73.7	71.6	72.2	530.4	5.24	0.0	
420	0:07:00	73.8	71.6	72.3	930.6	9.34	11.8	
435	0:07:15	73.5	71.6	72.3	965.7	9.44	23.6	
450	0:07:30	73.4	71.6	72.3	972.1	9.47	24.7	
465	0:07:45	73.3	71.7	72.3	974.2	9.47	25.1	
480	0:08:00	73.3	71.7	72.2	974.7	9.47	25.5	
495	0:08:15	73.4	71.7	72.3	975.3	9.48	25.6	
510	0:08:30	73.3	71.6	72.3	975.2	9.48	25.7	
525	0:08:45	73.2	71.7	72.3	975.8	9.48	25.8	
540	0:09:00	73.1	71.6	72.2	975.5	9.48	25.8	Start High Span IN
555	0:09:15	73.2	71.6	72.3	975.8	9.48	25.9	
570	0:09:30	73.2	71.6	72.3	975.8	9.48	25.9	
585	0:09:45	73.2	71.6	72.2	975.8	9.48	25.9	
600	0:10:00	73.5	71.6	72.3	975.8	9.48	26.0	
615	0:10:15	73.7	71.6	72.2	1050.3	9.48	26.0	
630	0:10:30	73.6	71.6	72.3	976.0	10.50	26.0	
645	0:10:45	73.6	71.6	72.2	975.8	10.50	26.1	
660	0:11:00	73.5	71.6	72.2	975.3	9.49	26.7	
675	0:11:15	73.7	71.6	72.3	975.3	9.49	26.7	
690	0:11:30	73.9	71.6	72.3	975.3	9.49	26.8	
705	0:11:45	74.1	71.6	72.2	974.7	9.49	26.7	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	73.7	71.7	72.3	974.7	9.49	26.7	
735	0:12:15	74.0	71.7	72.3	974.7	9.49	26.8	
750	0:12:30	73.6	71.6	72.3	975.2	9.49	26.7	
765	0:12:45	73.9	71.6	72.3	975.2	9.49	26.7	
780	0:13:00	73.9	71.7	72.3	975.2	9.49	26.7	
795	0:13:15	73.5	71.2	73.0	975.3	9.49	26.7	
810	0:13:30	73.2	71.4	72.6	975.8	9.49	26.7	
825	0:13:45	73.0	71.5	72.4	975.8	9.49	26.8	
840	0:14:00	73.2	71.4	72.3	975.2	9.49	26.8	Analyzer High Span IN
855	0:14:15	73.2	71.3	72.2	975.8	9.49	26.8	
870	0:14:30	73.0	71.3	72.2	975.8	9.49	26.8	
885	0:14:45	72.8	71.2	72.0	975.2	9.49	26.8	
900	0:15:00	72.8	71.3	72.0	975.2	9.49	26.8	
915	0:15:15	72.9	71.1	72.0	975.4	9.49	26.8	
930	0:15:30	73.4	71.0	72.0	925.1	9.48	26.5	
945	0:15:45	73.6	70.9	72.1	557.9	5.18	26.1	
960	0:16:00	73.7	70.8	72.1	510.0	5.03	19.9	
975	0:16:15	73.4	70.8	72.1	504.2	5.01	13.9	
990	0:16:30	73.4	70.8	72.1	502.0	5.01	14.4	
1005	0:16:45	73.4	70.8	72.0	501.5	5.01	14.4	
1020	0:17:00	73.4	70.9	72.0	501.5	5.01	14.5	Start Mid Span IN
1035	0:17:15	73.5	70.9	72.0	501.5	5.01	14.5	
1050	0:17:30	73.9	71.1	71.9	501.5	5.01	14.5	
1065	0:17:45	74.2	71.2	71.8	501.5	5.01	14.5	
1080	0:18:00	74.5	71.4	71.7	501.5	5.01	14.5	
1095	0:18:15	74.1	71.6	71.6	501.5	5.01	14.5	
1110	0:18:30	74.5	71.8	71.6	501.5	5.01	14.5	
1125	0:18:45	74.4	72.0	71.6	501.5	5.01	14.5	
1140	0:19:00	74.3	72.2	71.6	501.0	5.01	14.5	
1155	0:19:15	73.9	72.4	71.7	501.0	5.01	14.5	
1170	0:19:30	73.7	72.8	71.8	501.0	5.01	14.5	
1185	0:19:45	73.7	73.0	71.9	501.0	5.01	14.5	
1200	0:20:00	73.5	73.2	72.0	501.5	5.01	14.5	
1215	0:20:15	73.7	73.5	72.1	501.0	5.01	14.5	
1230	0:20:30	74.1	73.8	72.4	501.0	5.01	14.5	
1245	0:20:45	74.5	74.1	72.5	501.0	5.01	14.5	
1260	0:21:00	73.9	74.4	72.7	501.0	5.01	14.5	
1275	0:21:15	73.5	74.6	73.0	501.0	5.01	14.5	
1290	0:21:30	73.6	74.9	73.2	501.5	5.01	14.5	
1305	0:21:45	73.5	75.2	73.4	501.0	5.01	14.5	
1320	0:22:00	73.8	75.4	73.6	501.0	5.01	14.5	Analyzer Mid Span IN
1335	0:22:15	74.0	75.6	73.9	501.0	5.01	14.5	
1350	0:22:30	74.2	76.0	74.1	501.0	5.00	14.5	
1365	0:22:45	74.3	76.1	74.2	500.4	5.00	14.3	
1380	0:23:00	73.9	76.4	74.5	475.3	5.01	14.6	
1395	0:23:15	74.5	76.8	74.8	271.5	2.66	15.0	
1410	0:23:30	74.6	77.0	75.1	247.0	2.59	6.0	
1425	0:23:45	74.3	77.3	75.3	243.4	2.58	6.3	

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	73.8	77.6	75.5	242.3	2.58	6.7	
1455	0:24:15	73.9	77.8	75.9	241.8	2.58	6.8	
1470	0:24:30	73.6	78.1	76.2	241.8	2.58	6.9	
1485	0:24:45	73.6	78.4	76.4	241.8	2.58	6.9	
1500	0:25:00	73.9	78.8	76.7	241.8	2.57	6.9	Start Low Span IN
1515	0:25:15	73.9	79.0	76.9	241.2	2.58	6.9	
1530	0:25:30	73.9	79.2	77.2	241.2	2.57	6.9	
1545	0:25:45	73.8	79.6	77.5	241.2	2.57	6.9	
1560	0:26:00	73.8	79.8	77.7	241.2	2.57	6.9	
1575	0:26:15	73.6	80.0	78.0	241.2	2.57	6.9	
1590	0:26:30	73.5	80.3	78.3	241.2	2.57	6.9	
1605	0:26:45	73.5	80.6	78.6	241.8	2.57	6.9	
1620	0:27:00	73.3	80.9	80.9	241.8	2.58	6.9	
1635	0:27:15	73.3	81.3	101.2	241.8	2.57	6.9	
1650	0:27:30	74.0	81.7	123.0	241.8	2.58	6.9	
1665	0:27:45	74.2	82.1	134.1	241.8	2.57	6.9	
1680	0:28:00	74.6	82.4	140.3	241.8	2.57	6.9	
1695	0:28:15	74.3	82.8	142.8	241.8	2.57	6.9	
1710	0:28:30	73.6	83.1	143.7	241.8	2.58	6.9	
1725	0:28:45	74.2	83.4	143.4	241.8	2.57	6.9	
1740	0:29:00	74.2	83.8	143.3	241.8	2.57	6.9	
1755	0:29:15	74.4	84.1	142.9	241.8	2.57	6.9	
1770	0:29:30	74.6	84.4	142.5	241.8	2.57	6.9	
1785	0:29:45	73.9	84.7	142.0	241.8	2.57	6.9	
1800	0:30:00	74.5	85.1	140.9	241.8	2.57	6.9	Analyzer Low Span IN
1815	0:30:15	74.5	85.4	140.3	241.8	2.57	6.9	
1830	0:30:30	74.6	85.7	139.8	241.8	2.57	6.9	
1845	0:30:45	74.8	86.1	139.4	241.8	2.57	6.9	
1860	0:31:00	74.9	86.4	139.7	241.8	2.57	6.9	
1875	0:31:15	74.5	86.7	139.2	241.8	2.57	6.9	
1890	0:31:30	74.5	87.0	138.7	241.8	2.57	6.9	
1905	0:31:45	75.0	87.3	138.5	241.8	2.57	6.8	
1920	0:32:00	74.5	87.5	138.6	241.8	2.56	6.8	
1935	0:32:15	74.7	87.8	138.8	241.8	2.56	6.8	
1950	0:32:30	74.5	88.2	138.2	240.0	2.58	6.9	
1965	0:32:45	74.0	88.5	138.0	47.6	0.33	5.8	
1980	0:33:00	73.4	88.7	138.0	5.4	0.04	2.5	Start Zero Bias IN
1995	0:33:15	73.7	89.0	138.2	0.6	0.01	0.1	
2010	0:33:30	73.7	89.4	138.1	0.0	0.00	0.1	
2025	0:33:45	74.2	89.6	138.5	0.0	0.00	0.1	
2040	0:34:00	74.4	90.1	135.6	0.0	0.00	0.1	
2055	0:34:15	74.4	90.5	131.3	0.0	0.00	0.1	
2070	0:34:30	74.3	90.8	129.8	0.0	0.00	0.1	
2085	0:34:45	74.4	91.2	129.2	0.0	0.00	0.1	
2100	0:35:00	74.6	91.6	129.8	0.0	0.00	0.1	
2115	0:35:15	74.5	91.5	130.1	0.0	0.00	0.1	
2130	0:35:30	74.4	91.0	129.6	0.0	0.00	0.1	
2145	0:35:45	74.7	90.4	126.9	0.0	0.00	0.1	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	74.6	90.4	126.7	0.0	0.00	0.1	
2175	0:36:15	74.5	91.1	126.4	0.0	0.00	0.1	
2190	0:36:30	74.6	92.2	126.1	0.0	0.00	0.1	
2205	0:36:45	74.7	93.9	125.8	0.0	0.00	0.1	
2220	0:37:00	74.5	95.7	125.8	0.0	0.00	0.1	
2235	0:37:15	74.4	97.5	125.8	0.0	0.00	0.1	
2250	0:37:30	74.3	99.1	126.0	0.0	0.00	0.1	
2265	0:37:45	74.2	100.4	126.7	0.0	0.00	0.1	
2280	0:38:00	74.0	101.6	127.9	0.0	0.00	0.1	System Zero IN
2295	0:38:15	74.3	102.4	129.4	0.0	0.00	0.1	
2310	0:38:30	74.5	103.0	131.2	0.0	0.00	0.1	
2325	0:38:45	74.4	103.5	132.7	0.0	0.00	0.0	
2340	0:39:00	74.7	103.8	134.2	0.0	0.03	0.1	
2355	0:39:15	75.1	104.2	135.2	304.9	3.30	0.1	
2370	0:39:30	75.1	104.5	135.9	468.5	4.85	0.1	
2385	0:39:45	75.3	104.7	136.5	418.0	4.22	0.1	
2400	0:40:00	75.4	105.0	137.4	373.8	3.82	0.1	
2415	0:40:15	75.3	105.2	137.9	354.1	3.60	0.1	
2430	0:40:30	74.5	105.4	138.1	340.4	3.44	0.1	
2445	0:40:45	74.4	105.7	138.4	392.2	3.74	0.1	
2460	0:41:00	74.6	106.0	139.0	479.4	4.88	0.1	Start Mid CO/CO2 Bias IN
2475	0:41:15	74.6	106.5	139.5	488.7	4.96	0.1	
2490	0:41:30	74.7	106.9	139.6	491.9	4.98	0.1	
2505	0:41:45	74.6	107.4	140.0	493.0	4.98	0.1	
2520	0:42:00	75.1	107.8	140.2	493.0	4.98	0.1	
2535	0:42:15	75.2	108.2	140.7	493.5	4.98	0.1	
2550	0:42:30	75.2	108.6	141.3	493.5	4.99	0.1	
2565	0:42:45	75.1	109.0	142.0	493.0	4.99	0.1	
2580	0:43:00	75.3	109.4	142.2	493.0	4.99	0.1	
2595	0:43:15	75.3	109.7	142.6	493.0	4.99	0.1	
2610	0:43:30	75.4	110.1	143.2	493.0	4.99	0.1	
2625	0:43:45	75.4	110.5	143.7	493.5	4.99	0.1	
2640	0:44:00	75.3	110.8	144.3	493.5	4.99	0.1	
2655	0:44:15	75.2	111.2	144.5	493.5	4.99	0.1	
2670	0:44:30	75.2	111.4	144.6	493.5	4.99	0.1	
2685	0:44:45	75.5	111.6	145.1	493.5	4.99	0.1	
2700	0:45:00	75.3	112.0	145.5	493.5	4.99	0.1	
2715	0:45:15	74.9	112.3	145.9	493.5	4.99	0.1	
2730	0:45:30	75.2	112.5	146.2	493.5	4.99	0.1	
2745	0:45:45	75.4	112.7	146.7	493.5	4.99	0.1	
2760	0:46:00	75.2	113.0	146.7	493.5	4.99	0.1	System Mid CO/CO2 IN
2775	0:46:15	75.1	113.3	147.3	493.5	4.99	0.1	
2790	0:46:30	75.1	113.6	147.7	493.5	5.00	0.1	
2805	0:46:45	75.1	113.8	147.8	493.5	5.00	0.1	
2820	0:47:00	75.3	114.0	148.0	358.0	4.56	0.1	
2835	0:47:15	75.6	114.3	148.3	55.4	0.31	0.1	
2850	0:47:30	75.5	114.6	148.4	173.1	2.03	0.1	
2865	0:47:45	75.2	114.8	148.6	228.4	2.52	0.1	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	75.1	115.1	148.9	234.3	2.56	0.0	
2895	0:48:15	75.3	115.3	149.1	236.4	2.57	0.0	
2910	0:48:30	75.1	115.4	149.3	237.0	2.57	0.0	
2925	0:48:45	75.3	115.7	149.7	237.0	2.57	0.0	
2940	0:49:00	75.1	115.8	150.1	237.0	2.57	0.0	Start Low CO/CO2 Bias IN
2955	0:49:15	74.7	116.1	150.3	237.0	2.57	0.0	
2970	0:49:30	74.9	116.4	150.6	237.0	2.57	0.0	
2985	0:49:45	75.2	116.6	150.5	237.0	2.57	0.0	
3000	0:50:00	75.0	116.7	150.6	237.0	2.57	0.0	
3015	0:50:15	74.8	116.9	150.8	237.0	2.57	0.0	
3030	0:50:30	74.9	117.1	151.1	237.0	2.57	0.0	
3045	0:50:45	74.6	117.3	151.5	237.0	2.57	0.0	
3060	0:51:00	74.8	117.5	150.7	237.0	2.57	0.0	
3075	0:51:15	75.0	117.7	150.2	237.0	2.57	0.0	
3090	0:51:30	75.1	117.9	151.0	237.0	2.57	0.0	
3105	0:51:45	74.8	118.1	151.4	237.0	2.57	0.0	
3120	0:52:00	75.1	118.4	151.4	237.0	2.57	0.0	
3135	0:52:15	74.9	118.7	151.3	237.0	2.57	0.0	
3150	0:52:30	74.8	119.3	151.5	237.0	2.57	0.0	
3165	0:52:45	74.7	119.8	151.9	237.0	2.57	0.0	
3180	0:53:00	74.7	120.1	152.2	237.0	2.57	0.0	
3195	0:53:15	75.4	120.4	152.6	237.0	2.57	0.0	
3210	0:53:30	75.7	120.7	153.0	237.0	2.57	0.0	
3225	0:53:45	75.7	120.9	153.1	237.0	2.57	0.0	
3240	0:54:00	75.2	121.1	153.4	237.0	2.57	0.0	System Low CO/CO2 IN
3255	0:54:15	74.8	121.2	154.0	237.0	2.57	0.0	
3270	0:54:30	74.4	121.4	154.4	237.0	2.57	0.0	
3285	0:54:45	74.6	121.6	154.4	237.0	2.57	0.0	
3300	0:55:00	74.7	121.7	154.5	237.0	2.57	0.0	
3315	0:55:15	75.2	121.8	154.7	237.0	2.57	0.0	
3330	0:55:30	75.3	121.9	154.8	237.0	2.57	0.0	
3345	0:55:45	75.7	122.1	155.1	236.4	2.57	0.0	
3360	0:56:00	75.8	122.2	155.3	237.0	2.57	0.0	
3375	0:56:15	75.4	122.3	155.3	106.4	1.30	0.0	
3390	0:56:30	75.2	122.5	155.6	9.2	0.07	0.0	
3405	0:56:45	75.3	122.8	155.5	0.1	0.02	6.7	
3420	0:57:00	75.2	122.9	155.7	0.0	0.01	13.8	Start Mid NOx Bias IN
3435	0:57:15	75.4	123.1	155.8	0.0	0.01	14.1	
3450	0:57:30	75.3	123.1	155.9	0.0	0.01	14.1	
3465	0:57:45	75.2	123.3	156.4	0.0	0.01	14.2	
3480	0:58:00	74.9	123.4	156.4	0.0	0.01	14.2	
3495	0:58:15	75.1	123.5	156.5	0.0	0.02	14.2	
3510	0:58:30	75.0	123.7	156.8	0.0	0.02	14.2	
3525	0:58:45	74.8	123.8	157.6	0.0	0.02	14.2	
3540	0:59:00	75.1	123.9	158.2	0.0	0.02	14.2	
3555	0:59:15	75.4	124.0	158.8	0.0	0.02	14.2	
3570	0:59:30	75.5	124.1	158.9	0.0	0.02	14.2	
3585	0:59:45	75.2	124.4	159.3	0.0	0.02	14.2	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	74.7	124.6	159.5	0.0	0.02	14.2	
3615	1:00:15	74.8	124.9	159.4	0.0	0.02	14.2	
3630	1:00:30	75.4	125.0	159.7	0.0	0.02	14.2	
3645	1:00:45	75.1	125.3	160.3	0.0	0.02	14.2	
3660	1:01:00	74.9	125.5	160.5	0.0	0.02	14.2	
3675	1:01:15	75.1	125.7	160.0	0.0	0.02	14.2	
3690	1:01:30	75.1	125.9	159.0	0.0	0.03	14.2	
3705	1:01:45	75.2	126.2	158.6	0.0	0.03	14.3	
3720	1:02:00	75.1	126.3	158.5	0.0	0.03	14.3	System Mid NOx IN
3735	1:02:15	75.2	126.6	159.0	0.0	0.03	14.3	
3750	1:02:30	75.2	126.7	159.4	0.0	0.03	14.2	
3765	1:02:45	75.0	126.9	159.4	0.0	0.03	14.3	
3780	1:03:00	75.0	127.1	159.5	0.0	0.03	14.3	
3795	1:03:15	74.9	127.2	159.5	0.0	0.03	14.2	
3810	1:03:30	74.8	127.3	159.5	0.0	0.03	14.2	
3825	1:03:45	74.8	127.4	159.8	0.0	0.03	14.2	
3840	1:04:00	75.2	127.5	160.2	0.0	0.03	9.5	
3855	1:04:15	75.0	127.5	160.6	0.0	0.04	4.7	
3870	1:04:30	74.6	127.5	160.9	0.0	0.04	1.0	
3885	1:04:45	75.2	127.5	160.8	0.0	0.04	3.8	
3900	1:05:00	74.8	127.5	160.8	0.0	0.04	6.6	Start Low NOx Bias IN
3915	1:05:15	75.2	127.6	160.9	0.0	0.04	6.7	
3930	1:05:30	75.3	127.6	160.7	0.0	0.04	6.8	
3945	1:05:45	75.4	127.7	160.9	0.0	0.04	6.8	
3960	1:06:00	75.7	127.9	161.3	0.0	0.04	6.8	
3975	1:06:15	75.9	128.0	161.4	0.0	0.04	6.8	
3990	1:06:30	75.9	128.2	161.5	0.0	0.04	6.8	
4005	1:06:45	76.0	128.3	161.3	0.0	0.04	6.8	
4020	1:07:00	76.0	128.4	161.4	0.0	0.05	6.8	
4035	1:07:15	75.6	128.5	161.4	0.0	0.05	6.8	
4050	1:07:30	75.7	128.6	161.8	0.0	0.05	6.8	
4065	1:07:45	75.8	128.8	161.9	0.0	0.05	6.8	
4080	1:08:00	75.8	128.8	162.1	0.0	0.05	6.8	
4095	1:08:15	76.3	128.8	162.0	0.0	0.05	6.8	
4110	1:08:30	76.3	129.0	162.1	0.0	0.05	6.8	
4125	1:08:45	76.0	129.0	162.6	0.0	0.05	6.8	
4140	1:09:00	76.3	129.2	162.9	0.0	0.05	6.8	
4155	1:09:15	75.7	129.3	162.9	0.0	0.05	6.8	
4170	1:09:30	75.6	129.4	163.1	0.0	0.06	6.8	
4185	1:09:45	75.4	129.4	162.8	0.0	0.06	6.8	
4200	1:10:00	76.1	129.6	161.4	0.0	0.06	6.8	System Low NOx IN
4215	1:10:15	76.5	129.6	160.8	0.0	0.06	6.8	
4230	1:10:30	76.7	129.8	160.7	0.0	0.06	6.8	
4245	1:10:45	76.8	130.0	161.0	0.0	0.06	6.8	
4260	1:11:00	77.1	130.4	161.1	0.0	0.06	6.6	
4275	1:11:15	76.1	130.9	161.1	0.0	0.06	6.5	
4290	1:11:30	76.2	131.4	161.1	0.0	0.03	6.3	
4305	1:11:45	76.5	131.7	161.2	2.8	0.46	6.5	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
4320	1:12:00	75.5	131.9	161.7	1.7	8.07	8.2
4335	1:12:15	75.8	131.9	161.7	1.2	8.39	9.7
4350	1:12:30	76.4	132.0	162.0	1.2	8.46	10.4
4365	1:12:45	76.5	132.0	162.3	1.2	8.48	10.4
4380	1:13:00	76.5	132.0	162.5	1.2	8.50	10.6
4395	1:13:15	76.1	132.0	162.7	1.2	8.50	10.7
4410	1:13:30	76.0	132.1	162.9	1.2	8.51	10.8
4425	1:13:45	75.7	132.2	162.9	1.2	8.52	10.8
4440	1:14:00	75.4	132.3	163.1	1.2	8.52	11.0
4455	1:14:15	75.6	132.5	163.1	1.2	8.51	11.1
4470	1:14:30	75.6	132.6	162.1	0.6	8.52	11.1
4485	1:14:45	75.8	132.6	160.8	0.1	8.45	11.1
4500	1:15:00	76.5	132.7	160.4	0.0	8.41	10.5
4515	1:15:15	76.6	132.9	160.3	0.0	8.39	9.8
4530	1:15:30	76.2	133.0	160.5	0.0	8.39	9.7
4545	1:15:45	76.6	133.0	160.5	0.0	8.40	9.7
4560	1:16:00	77.1	133.2	160.7	0.0	8.39	9.8
4575	1:16:15	76.4	133.3	160.8	0.0	8.39	9.8
4590	1:16:30	76.7	133.2	161.0	0.0	8.39	9.9
4605	1:16:45	76.1	133.2	161.1	0.0	8.40	9.9
4620	1:17:00	76.5	133.1	161.1	0.0	8.39	9.9
4635	1:17:15	76.8	133.0	161.1	0.0	8.38	9.9
4650	1:17:30	76.8	132.9	161.1	0.0	8.38	10.0
4665	1:17:45	76.4	132.8	161.2	0.0	8.39	10.0
4680	1:18:00	75.9	132.8	161.3	0.0	8.40	10.1
4695	1:18:15	76.2	132.8	161.3	0.0	8.42	10.2
4710	1:18:30	76.7	132.8	161.4	0.0	8.43	10.3
4725	1:18:45	76.8	132.8	161.3	0.0	8.42	10.3
4740	1:19:00	76.7	132.8	161.3	0.0	8.41	10.3
4755	1:19:15	76.6	132.9	161.3	0.0	8.42	10.2
4770	1:19:30	76.8	132.9	161.4	0.0	8.42	10.4
4785	1:19:45	77.0	133.0	161.3	0.0	8.42	10.4
4800	1:20:00	75.9	133.1	159.6	0.0	8.42	10.4
4815	1:20:15	75.7	133.1	157.7	0.0	8.24	10.4
4830	1:20:30	75.8	133.2	157.3	0.0	8.13	8.2
4845	1:20:45	75.6	133.2	157.1	0.0	8.13	8.1
4860	1:21:00	75.6	133.1	158.0	0.0	8.12	8.0
4875	1:21:15	75.8	133.2	159.7	0.0	8.12	7.9
4890	1:21:30	75.3	133.2	160.5	0.0	8.11	7.8
4905	1:21:45	75.3	133.2	160.6	0.0	8.11	7.8
4920	1:22:00	75.4	133.2	160.6	0.0	8.08	7.7
4935	1:22:15	75.4	132.9	160.8	0.0	8.07	7.6
4950	1:22:30	75.3	132.6	160.9	0.0	8.07	7.5
4965	1:22:45	75.4	132.4	161.0	0.0	8.08	7.5
4980	1:23:00	75.4	132.0	160.9	0.0	8.07	7.5
4995	1:23:15	75.4	131.8	160.8	0.0	8.06	7.4
5010	1:23:30	75.7	131.7	160.6	0.0	8.05	7.4
5025	1:23:45	75.6	131.7	160.4	0.0	8.05	7.4

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5040	1:24:00	75.5	131.8	160.2	0.0	8.05	7.4
5055	1:24:15	75.6	131.8	159.9	0.0	8.05	7.4
5070	1:24:30	75.5	131.8	159.8	0.0	8.06	7.3
5085	1:24:45	75.5	131.9	159.5	0.0	8.05	7.3
5100	1:25:00	75.3	131.9	159.5	0.0	8.05	7.3
5115	1:25:15	75.3	131.9	159.4	0.0	8.05	7.3
5130	1:25:30	75.6	132.1	159.5	0.0	8.04	7.3
5145	1:25:45	75.3	132.0	159.5	0.0	8.04	7.3
5160	1:26:00	75.5	132.1	159.6	0.0	8.04	7.3
5175	1:26:15	75.6	132.2	159.7	0.0	8.04	7.3
5190	1:26:30	75.5	132.1	159.3	0.0	8.04	7.3
5205	1:26:45	75.5	132.0	158.5	0.0	7.95	7.2
5220	1:27:00	75.5	132.0	158.3	0.0	7.94	6.8
5235	1:27:15	75.7	131.9	158.3	0.0	7.93	6.7
5250	1:27:30	75.5	131.9	158.4	0.0	7.92	6.6
5265	1:27:45	75.2	131.9	158.4	0.0	7.92	6.6
5280	1:28:00	74.9	131.8	158.3	0.0	7.92	6.6
5295	1:28:15	75.3	131.8	158.2	0.0	7.94	6.6
5310	1:28:30	75.6	131.8	158.2	0.0	7.92	6.6
5325	1:28:45	75.3	131.8	158.2	0.0	7.93	6.6
5340	1:29:00	75.3	131.8	158.3	0.0	7.93	6.6
5355	1:29:15	75.5	131.7	158.3	0.0	7.94	6.6
5370	1:29:30	75.5	131.7	158.3	0.0	7.93	6.6
5385	1:29:45	75.5	131.6	158.3	0.0	7.94	6.6
5400	1:30:00	75.3	131.6	158.3	0.0	7.92	6.5
5415	1:30:15	75.5	131.6	158.4	0.0	7.94	6.5
5430	1:30:30	75.5	131.6	158.3	0.0	7.93	6.6
5445	1:30:45	75.8	131.6	158.3	0.0	7.95	6.6
5460	1:31:00	75.9	131.6	158.3	0.0	7.94	6.6
5475	1:31:15	75.9	131.5	158.2	0.0	7.94	6.6
5490	1:31:30	76.2	131.6	158.2	0.0	7.95	6.6
5505	1:31:45	76.0	131.5	158.2	0.0	7.95	6.6
5520	1:32:00	76.0	131.6	158.3	0.0	7.95	6.6
5535	1:32:15	75.8	131.6	158.2	0.0	7.96	6.6
5550	1:32:30	76.0	131.6	158.2	0.0	7.95	6.6
5565	1:32:45	76.1	131.6	158.2	0.0	7.95	6.6
5580	1:33:00	75.3	131.6	158.3	0.0	7.95	6.6
5595	1:33:15	75.7	131.7	158.6	0.0	7.95	6.6
5610	1:33:30	75.9	131.7	159.1	0.0	8.02	6.5
5625	1:33:45	75.5	131.7	158.8	0.0	8.01	6.8
5640	1:34:00	75.4	131.8	158.6	0.0	7.96	6.8
5655	1:34:15	75.2	131.7	158.5	0.0	7.95	6.6
5670	1:34:30	75.2	131.4	158.2	0.0	7.94	6.6
5685	1:34:45	75.5	131.7	158.5	0.0	7.95	6.6
5700	1:35:00	75.7	131.8	158.5	0.0	7.95	6.6
5715	1:35:15	75.6	131.8	158.6	0.0	7.96	6.6
5730	1:35:30	75.5	131.9	158.6	0.0	7.96	6.7
5745	1:35:45	75.5	131.9	158.6	0.0	7.95	6.6

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5760	1:36:00	75.9	131.9	158.7	0.0	7.96	6.6
5775	1:36:15	75.9	132.0	158.7	0.0	7.96	6.6
5790	1:36:30	75.9	131.9	158.9	0.0	7.96	6.6
5805	1:36:45	76.5	131.9	159.3	0.0	7.95	6.6
5820	1:37:00	76.5	132.1	159.8	0.0	7.95	6.6
5835	1:37:15	76.0	132.1	160.4	0.0	8.02	6.6
5850	1:37:30	75.9	132.2	160.3	0.0	8.05	7.0
5865	1:37:45	76.1	132.3	160.0	0.0	7.98	7.0
5880	1:38:00	76.6	132.3	160.1	0.0	7.95	6.8
5895	1:38:15	76.2	132.5	160.2	0.0	8.01	6.6
5910	1:38:30	76.0	132.5	160.0	0.0	7.96	7.0
5925	1:38:45	75.2	132.6	160.0	0.0	7.96	6.8
5940	1:39:00	75.2	132.7	160.0	0.0	7.97	6.7
5955	1:39:15	75.8	132.7	160.1	0.0	7.96	6.7
5970	1:39:30	75.7	132.8	160.3	0.0	7.96	6.7
5985	1:39:45	75.4	133.0	160.4	0.0	7.96	6.7
6000	1:40:00	76.5	133.1	160.4	0.0	7.95	6.7
6015	1:40:15	77.2	133.2	160.6	0.0	7.95	6.7
6030	1:40:30	77.1	133.4	160.7	0.0	7.95	6.6
6045	1:40:45	77.0	133.4	160.9	0.0	7.96	6.7
6060	1:41:00	76.4	133.5	160.9	0.0	7.96	6.7
6075	1:41:15	76.1	133.5	161.1	0.0	7.95	6.7
6090	1:41:30	76.0	133.6	161.4	0.0	7.97	6.7
6105	1:41:45	76.1	133.7	162.0	0.0	8.03	6.7
6120	1:42:00	76.0	133.8	162.5	0.0	8.06	7.0
6135	1:42:15	76.0	133.8	162.4	0.0	8.05	7.2
6150	1:42:30	76.0	133.9	162.1	0.0	8.02	7.2
6165	1:42:45	75.9	134.0	161.9	0.0	7.98	7.1
6180	1:43:00	75.7	134.0	161.9	0.0	7.98	6.9
6195	1:43:15	75.7	134.2	162.0	0.0	7.98	6.9
6210	1:43:30	76.0	134.3	162.0	0.0	7.97	6.8
6225	1:43:45	76.0	134.4	162.1	0.0	7.96	6.8
6240	1:44:00	75.9	134.6	162.3	0.0	7.97	6.8
6255	1:44:15	75.8	134.6	162.4	0.0	7.98	6.8
6270	1:44:30	76.1	134.8	162.5	0.0	7.98	6.9
6285	1:44:45	75.9	134.9	162.6	0.0	7.98	6.9
6300	1:45:00	76.2	135.0	162.7	0.0	8.00	6.9
6315	1:45:15	76.1	135.1	162.8	0.0	7.98	7.0
6330	1:45:30	75.9	135.1	163.0	0.0	7.99	6.9
6345	1:45:45	75.8	135.2	163.5	0.0	7.98	6.9
6360	1:46:00	75.8	135.3	164.5	0.0	8.05	7.1
6375	1:46:15	76.1	135.3	164.9	0.0	8.08	7.4
6390	1:46:30	76.1	135.4	165.0	0.0	8.07	7.5
6405	1:46:45	75.9	135.4	165.1	0.0	8.06	7.4
6420	1:47:00	75.8	135.3	165.2	0.0	8.08	7.4
6435	1:47:15	75.9	135.0	165.3	0.0	8.09	7.5
6450	1:47:30	76.5	135.0	165.3	0.0	8.08	7.5
6465	1:47:45	76.5	135.2	165.4	0.0	8.08	7.5

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
6480	1:48:00	75.8	135.4	165.4	0.0	8.09	7.5
6495	1:48:15	76.3	135.6	165.2	0.0	8.09	7.6
6510	1:48:30	76.1	135.8	165.1	0.0	8.09	7.5
6525	1:48:45	75.8	136.0	165.2	0.0	8.11	7.6
6540	1:49:00	75.9	136.3	165.4	0.0	8.11	7.6
6555	1:49:15	76.0	136.5	165.8	0.0	8.11	7.6
6570	1:49:30	75.8	136.7	166.0	0.0	8.13	7.7
6585	1:49:45	75.8	136.9	165.7	0.0	8.13	7.7
6600	1:50:00	76.0	137.0	164.6	0.0	7.99	7.4
6615	1:50:15	76.0	137.2	163.5	0.0	7.88	7.2
6630	1:50:30	75.9	137.3	163.1	0.0	7.78	6.3
6645	1:50:45	76.0	137.5	163.2	0.0	7.82	6.2
6660	1:51:00	76.2	137.6	163.6	0.0	7.81	5.9
6675	1:51:15	76.0	137.7	164.2	0.0	7.87	5.9
6690	1:51:30	76.0	137.7	164.4	0.0	7.88	6.3
6705	1:51:45	76.0	137.9	164.4	0.0	7.89	6.3
6720	1:52:00	75.4	138.0	164.0	0.0	7.85	6.3
6735	1:52:15	76.3	138.0	164.0	0.0	7.77	6.3
6750	1:52:30	76.1	138.0	164.0	0.0	7.84	5.7
6765	1:52:45	75.9	138.0	164.3	0.0	7.77	5.8
6780	1:53:00	76.2	137.9	164.7	0.0	7.86	6.0
6795	1:53:15	75.9	137.8	164.3	0.0	7.84	6.2
6810	1:53:30	75.7	137.8	164.2	0.0	7.78	5.9
6825	1:53:45	76.2	137.7	164.1	0.0	7.77	5.9
6840	1:54:00	76.1	137.7	164.1	0.0	7.76	5.7
6855	1:54:15	76.0	137.7	164.2	0.0	7.79	5.7
6870	1:54:30	76.2	137.8	164.2	0.0	7.80	5.8
6885	1:54:45	76.2	137.7	164.2	0.0	7.79	5.8
6900	1:55:00	76.1	137.7	164.0	0.0	7.78	5.8
6915	1:55:15	75.9	137.8	164.0	0.0	7.76	5.7
6930	1:55:30	76.0	137.8	164.5	0.0	7.80	5.6
6945	1:55:45	76.1	137.8	164.7	0.0	7.84	5.8
6960	1:56:00	76.3	137.9	165.3	0.0	7.87	6.0
6975	1:56:15	76.1	137.9	165.7	0.0	7.90	6.0
6990	1:56:30	75.6	137.9	165.9	0.0	7.96	6.2
7005	1:56:45	75.5	138.0	166.2	0.0	7.98	6.4
7020	1:57:00	75.8	138.0	166.2	0.0	7.99	6.7
7035	1:57:15	76.1	138.0	166.3	0.0	7.99	6.7
7050	1:57:30	75.8	138.0	166.4	0.0	7.99	6.7
7065	1:57:45	75.5	138.0	166.5	0.0	7.99	6.7
7080	1:58:00	75.4	138.0	166.5	0.0	8.00	6.7
7095	1:58:15	75.5	138.0	166.6	0.0	8.00	6.8
7110	1:58:30	75.9	137.9	166.6	0.0	8.00	6.7
7125	1:58:45	75.9	138.0	166.8	0.0	8.00	6.8
7140	1:59:00	75.7	138.1	166.9	0.0	8.03	6.9
7155	1:59:15	75.5	138.3	167.0	0.0	8.05	7.0
7170	1:59:30	75.6	138.4	166.8	0.0	8.02	7.1
7185	1:59:45	75.4	138.5	166.8	0.0	8.00	6.9

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
7200	2:00:00	75.8	138.6	167.1	0.0	8.03	6.9
7215	2:00:15	76.0	138.8	167.4	0.0	8.05	6.9
7230	2:00:30	76.0	138.8	167.1	0.0	8.05	7.1
7245	2:00:45	75.7	138.9	166.4	0.0	7.98	7.1
7260	2:01:00	76.1	138.9	166.6	0.0	7.92	6.7
7275	2:01:15	75.7	139.0	167.1	0.0	7.98	6.4
7290	2:01:30	75.1	139.0	167.1	0.0	8.02	6.9
7305	2:01:45	75.8	139.2	166.6	0.0	7.94	6.9
7320	2:02:00	76.6	139.1	166.6	0.0	7.92	6.6
7335	2:02:15	76.0	139.2	166.9	0.0	8.21	6.4
7350	2:02:30	76.4	139.3	166.8	0.0	8.64	7.5
7365	2:02:45	76.0	139.3	166.9	0.0	8.68	8.3
7380	2:03:00	75.3	139.4	166.9	0.0	8.69	9.3
7395	2:03:15	75.7	139.5	167.0	0.0	8.69	9.5
7410	2:03:30	75.9	139.5	167.0	0.0	8.67	9.5
7425	2:03:45	75.8	139.5	167.1	0.0	8.57	9.3
7440	2:04:00	76.5	139.5	167.7	0.0	8.59	9.2
7455	2:04:15	76.2	139.6	168.1	0.0	8.60	9.2
7470	2:04:30	76.9	139.6	168.2	0.0	8.60	9.6
7485	2:04:45	76.6	139.6	168.3	0.0	8.60	9.6
7500	2:05:00	76.1	139.6	168.3	0.0	8.60	9.6
7515	2:05:15	75.6	139.6	168.4	0.0	8.60	9.6
7530	2:05:30	76.4	139.7	168.6	0.0	8.61	9.6
7545	2:05:45	76.2	139.7	168.5	0.0	8.61	9.7
7560	2:06:00	75.8	139.7	168.6	0.0	8.63	9.8
7575	2:06:15	75.8	139.8	168.7	0.0	8.62	9.9
7590	2:06:30	76.2	139.8	168.6	0.0	8.61	9.9
7605	2:06:45	76.5	139.9	168.6	0.0	8.61	9.9
7620	2:07:00	76.5	140.0	168.6	0.0	8.61	9.9
7635	2:07:15	76.1	140.1	168.7	0.0	8.61	9.9
7650	2:07:30	76.5	140.2	168.8	0.0	8.61	9.8
7665	2:07:45	77.2	140.3	169.0	0.0	8.61	9.9
7680	2:08:00	76.5	140.2	169.0	0.0	8.63	9.9
7695	2:08:15	76.2	140.3	168.9	0.0	8.61	10.0
7710	2:08:30	76.6	140.4	169.0	0.0	8.54	9.9
7725	2:08:45	76.2	140.5	169.0	0.0	8.39	9.4
7740	2:09:00	76.2	140.5	169.0	0.0	8.38	8.9
7755	2:09:15	76.1	140.6	169.0	0.0	8.38	8.8
7770	2:09:30	76.4	140.6	168.9	0.0	8.38	8.8
7785	2:09:45	76.3	140.7	168.6	0.0	8.36	8.8
7800	2:10:00	76.3	140.9	168.8	0.0	8.34	8.5
7815	2:10:15	76.2	141.0	169.5	0.0	8.39	8.3
7830	2:10:30	76.2	141.1	169.8	0.0	8.43	8.9
7845	2:10:45	75.5	141.3	169.8	0.0	8.42	9.0
7860	2:11:00	75.7	141.3	169.7	0.0	8.38	8.8
7875	2:11:15	75.8	141.4	169.8	0.0	8.37	8.6
7890	2:11:30	75.8	141.4	169.7	0.0	8.38	8.5
7905	2:11:45	75.7	141.5	169.5	0.0	8.38	8.7

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
7920	2:12:00	75.7	141.5	169.1	0.0	8.34	8.6
7935	2:12:15	75.8	141.5	169.2	0.0	8.34	8.3
7950	2:12:30	76.2	141.5	169.3	0.0	8.32	8.4
7965	2:12:45	76.1	141.6	169.4	0.0	8.33	8.3
7980	2:13:00	75.9	141.7	169.6	0.0	8.35	8.3
7995	2:13:15	76.5	141.7	169.6	0.0	8.37	8.4
8010	2:13:30	77.7	141.7	169.5	0.0	8.36	8.5
8025	2:13:45	77.4	141.8	169.6	0.0	8.35	8.4
8040	2:14:00	77.6	141.8	169.7	0.0	8.36	8.3
8055	2:14:15	77.9	141.8	169.8	0.0	8.37	8.3
8070	2:14:30	77.7	141.8	169.8	0.0	8.35	8.4
8085	2:14:45	77.8	141.8	169.6	0.0	8.33	8.4
8100	2:15:00	77.1	141.8	170.0	0.0	8.33	8.3
8115	2:15:15	76.7	141.8	170.7	0.0	8.39	8.2
8130	2:15:30	76.8	141.8	170.9	0.0	8.41	8.9
8145	2:15:45	76.3	141.8	170.9	0.0	8.40	8.9
8160	2:16:00	76.6	141.8	170.2	0.0	8.36	8.8
8175	2:16:15	76.9	141.8	169.9	0.0	8.33	8.6
8190	2:16:30	76.6	141.8	169.8	0.0	8.33	8.1
8205	2:16:45	76.4	141.9	169.9	0.0	8.34	8.2
8220	2:17:00	76.0	141.9	169.8	0.0	8.33	8.2
8235	2:17:15	76.1	142.0	169.7	0.0	8.31	8.2
8250	2:17:30	76.5	142.1	169.7	0.0	8.22	8.1
8265	2:17:45	76.2	142.2	169.6	0.0	8.17	7.8
8280	2:18:00	76.2	142.2	169.6	0.0	8.18	7.5
8295	2:18:15	76.4	142.3	169.7	0.0	8.19	7.5
8310	2:18:30	76.4	142.4	169.8	0.0	8.18	7.5
8325	2:18:45	76.0	142.4	170.0	0.0	8.18	7.5
8340	2:19:00	76.6	142.5	170.2	0.0	8.17	7.5
8355	2:19:15	76.3	142.5	170.4	0.0	8.17	7.4
8370	2:19:30	76.6	142.4	170.7	0.0	8.18	7.4
8385	2:19:45	77.4	142.5	170.8	0.0	8.21	7.5
8400	2:20:00	77.6	142.5	170.8	0.0	8.17	7.5
8415	2:20:15	76.7	142.5	170.9	0.0	8.15	7.4
8430	2:20:30	75.9	142.6	170.9	0.0	8.16	7.3
8445	2:20:45	76.4	142.5	171.0	0.0	8.17	7.3
8460	2:21:00	76.4	142.6	171.1	0.0	8.17	7.3
8475	2:21:15	76.7	142.7	171.0	0.0	8.17	7.3
8490	2:21:30	76.3	142.7	171.0	0.0	8.16	7.3
8505	2:21:45	75.6	142.8	171.0	0.0	8.17	7.3
8520	2:22:00	75.7	142.8	171.1	0.0	8.16	7.3
8535	2:22:15	76.0	142.9	171.4	0.0	8.16	7.3
8550	2:22:30	76.2	143.0	171.7	0.0	8.18	7.3
8565	2:22:45	76.7	143.0	172.0	0.0	8.21	7.3
8580	2:23:00	76.9	143.2	172.2	0.0	8.19	7.4
8595	2:23:15	77.1	143.1	172.2	0.0	8.18	7.4
8610	2:23:30	76.1	143.3	172.1	0.0	8.18	7.4
8625	2:23:45	76.5	143.4	172.1	0.0	8.16	7.4

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
8640	2:24:00	77.0	143.5	172.2	0.0	8.16	7.3
8655	2:24:15	77.0	143.6	172.2	0.0	8.16	7.3
8670	2:24:30	76.7	143.7	172.3	0.0	8.17	7.3
8685	2:24:45	76.9	143.7	172.3	0.0	8.16	7.3
8700	2:25:00	77.4	143.8	172.5	0.0	8.16	7.3
8715	2:25:15	78.0	143.9	172.5	0.0	8.17	7.2
8730	2:25:30	77.4	143.9	172.8	0.0	8.16	7.3
8745	2:25:45	77.1	144.1	173.7	0.0	8.22	7.3
8760	2:26:00	77.0	144.2	173.8	0.0	8.25	7.6
8775	2:26:15	77.2	144.3	173.3	0.0	8.24	7.9
8790	2:26:30	77.7	144.3	173.1	0.0	8.19	7.7
8805	2:26:45	77.4	144.4	172.9	0.0	8.18	7.7
8820	2:27:00	75.9	144.5	172.8	0.0	8.17	7.5
8835	2:27:15	76.2	144.5	172.8	0.0	8.16	7.3
8850	2:27:30	75.9	144.5	172.9	0.0	8.17	7.2
8865	2:27:45	75.6	144.4	172.9	0.0	8.16	7.2
8880	2:28:00	76.0	144.5	173.0	0.0	8.16	7.2
8895	2:28:15	76.0	144.5	173.0	0.0	8.16	7.2
8910	2:28:30	76.0	144.6	173.0	0.0	8.16	7.2
8925	2:28:45	76.4	144.7	173.1	0.0	8.16	7.2
8940	2:29:00	76.3	144.7	173.1	0.0	8.17	7.2
8955	2:29:15	76.3	144.8	173.2	0.0	8.16	7.3
8970	2:29:30	76.8	144.8	173.2	0.0	8.17	7.2
8985	2:29:45	76.3	144.8	173.4	0.0	8.18	7.2
9000	2:30:00	76.2	144.8	173.7	0.0	8.20	7.4
9015	2:30:15	76.1	144.9	173.8	0.0	8.19	7.5
9030	2:30:30	75.8	144.8	173.8	0.0	8.20	7.4
9045	2:30:45	77.2	144.9	173.8	0.0	8.20	7.4
9060	2:31:00	77.5	144.9	173.8	0.0	8.19	7.5
9075	2:31:15	76.5	145.0	174.0	0.0	8.20	7.4
9090	2:31:30	76.8	145.0	173.9	0.0	8.20	7.4
9105	2:31:45	77.4	145.0	173.9	0.0	8.20	7.4
9120	2:32:00	77.6	145.1	174.1	0.0	8.20	7.4
9135	2:32:15	77.3	145.1	174.1	0.0	8.21	7.4
9150	2:32:30	77.9	145.1	174.1	0.0	8.21	7.5
9165	2:32:45	78.2	145.1	174.2	0.0	8.21	7.5
9180	2:33:00	77.8	145.2	174.1	0.0	8.21	7.5
9195	2:33:15	77.3	145.2	173.8	0.0	8.20	7.6
9210	2:33:30	77.1	145.3	173.9	0.0	8.20	7.4
9225	2:33:45	77.4	145.3	174.0	0.0	8.20	7.4
9240	2:34:00	77.6	145.4	173.9	0.0	8.21	7.5
9255	2:34:15	77.1	145.4	173.8	0.0	8.18	7.5
9270	2:34:30	76.8	145.5	174.1	0.0	8.18	7.4
9285	2:34:45	76.5	145.5	174.9	0.0	8.24	7.4
9300	2:35:00	76.3	145.5	175.4	0.0	8.27	7.7
9315	2:35:15	76.2	145.6	175.6	0.0	8.29	8.0
9330	2:35:30	76.5	145.6	175.6	0.0	8.28	8.1
9345	2:35:45	77.2	145.7	175.7	0.0	8.28	8.1

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
9360	2:36:00	77.1	145.7	175.3	0.0	8.27	8.0
9375	2:36:15	77.2	145.7	174.8	0.0	8.21	8.0
9390	2:36:30	77.9	145.7	175.2	0.0	8.25	7.4
9405	2:36:45	76.3	145.7	175.5	0.0	8.27	7.7
9420	2:37:00	76.5	145.7	175.2	0.0	8.26	8.0
9435	2:37:15	76.3	145.6	174.5	0.0	8.19	8.0
9450	2:37:30	76.8	145.7	174.3	0.0	8.18	7.4
9465	2:37:45	77.4	145.7	174.3	0.0	8.19	7.4
9480	2:38:00	77.6	145.9	174.2	0.0	8.18	7.4
9495	2:38:15	78.0	145.8	174.1	0.0	8.18	7.4
9510	2:38:30	78.3	145.9	174.2	0.0	8.19	7.3
9525	2:38:45	78.1	145.9	174.4	0.0	8.19	7.4
9540	2:39:00	77.5	145.9	174.5	0.0	8.18	7.4
9555	2:39:15	76.7	146.0	174.9	0.0	8.19	7.4
9570	2:39:30	76.5	146.0	175.2	0.0	8.18	7.4
9585	2:39:45	76.7	146.0	175.5	0.0	8.20	7.4
9600	2:40:00	76.5	146.0	175.5	0.0	8.18	7.4
9615	2:40:15	76.6	146.0	175.7	0.0	8.20	7.4
9630	2:40:30	76.3	146.0	175.9	0.0	8.22	7.4
9645	2:40:45	76.5	146.1	176.0	0.0	8.22	7.5
9660	2:41:00	76.4	146.2	176.0	0.0	8.23	7.6
9675	2:41:15	76.5	146.3	176.0	0.0	8.22	7.7
9690	2:41:30	77.0	146.4	176.0	0.0	8.21	7.6
9705	2:41:45	76.4	146.5	176.1	0.0	8.21	7.5
9720	2:42:00	76.3	146.5	176.2	0.0	8.22	7.6
9735	2:42:15	76.4	146.6	176.2	0.0	8.21	7.6
9750	2:42:30	76.4	146.7	176.2	0.0	8.21	7.6
9765	2:42:45	76.6	146.7	176.3	0.0	8.21	7.5
9780	2:43:00	76.4	146.8	176.5	0.0	8.21	7.5
9795	2:43:15	76.3	147.0	176.6	0.0	8.21	7.5
9810	2:43:30	76.3	147.1	176.6	0.0	8.22	7.6
9825	2:43:45	76.7	147.1	176.7	0.0	8.23	7.6
9840	2:44:00	77.5	147.2	176.7	0.0	8.22	7.6
9855	2:44:15	77.5	147.3	176.9	0.0	8.21	7.6
9870	2:44:30	77.5	147.3	177.0	0.0	8.22	7.6
9885	2:44:45	76.7	147.4	177.2	0.0	8.22	7.6
9900	2:45:00	76.5	147.4	177.4	0.0	8.22	7.6
9915	2:45:15	77.9	147.4	177.5	0.0	8.21	7.6
9930	2:45:30	76.7	147.4	177.5	0.0	8.21	7.6
9945	2:45:45	76.8	147.5	177.6	0.0	8.22	7.6
9960	2:46:00	76.7	147.5	177.7	0.0	8.23	7.6
9975	2:46:15	76.9	147.6	177.7	0.0	8.22	7.7
9990	2:46:30	76.7	147.5	177.7	0.0	8.22	7.6
10005	2:46:45	77.1	147.6	177.6	0.0	8.22	7.6
10020	2:47:00	77.1	147.7	177.5	0.0	8.21	7.6
10035	2:47:15	76.9	147.7	177.4	0.0	8.20	7.5
10050	2:47:30	76.8	147.7	177.3	0.0	8.20	7.4
10065	2:47:45	76.7	147.8	177.4	0.0	8.20	7.4

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10080	2:48:00	77.0	147.8	177.4	0.0	8.20	7.4	
10095	2:48:15	76.9	147.9	177.4	0.0	8.18	7.4	
10110	2:48:30	76.8	148.0	177.5	0.0	8.18	7.4	
10125	2:48:45	76.9	148.1	177.4	0.0	8.18	7.4	
10140	2:49:00	76.4	148.2	177.4	0.0	8.16	7.3	
10155	2:49:15	76.5	148.3	177.3	0.0	8.17	7.3	
10170	2:49:30	76.2	148.4	177.4	0.0	8.17	7.3	
10185	2:49:45	76.4	148.4	177.6	0.0	8.17	7.3	
10200	2:50:00	76.6	148.5	177.7	0.0	8.16	7.3	
10215	2:50:15	76.5	148.5	177.8	0.0	8.18	7.3	
10230	2:50:30	76.9	148.5	177.8	0.0	8.19	7.4	
10245	2:50:45	76.5	148.6	177.9	0.0	8.20	7.4	
10260	2:51:00	76.8	148.5	177.9	0.0	8.18	7.4	
10275	2:51:15	76.7	148.6	178.1	0.0	8.17	7.3	
10290	2:51:30	76.7	148.7	178.2	0.0	8.18	7.3	
10305	2:51:45	76.5	148.7	178.2	0.0	8.19	7.3	
10320	2:52:00	76.2	148.6	178.2	0.0	8.18	7.3	Start Low Fire Equilibrium - #1
10335	2:52:15	76.6	148.6	178.3	0.0	8.19	7.3	
10350	2:52:30	76.3	148.6	178.8	0.0	8.19	7.3	
10365	2:52:45	76.4	148.6	179.4	0.0	8.24	7.5	
10380	2:53:00	76.3	148.6	179.6	0.0	8.26	7.8	
10395	2:53:15	76.5	148.6	179.0	0.0	8.26	7.9	
10410	2:53:30	76.7	148.7	178.6	0.0	8.20	7.7	
10425	2:53:45	76.4	148.7	178.4	0.0	8.19	7.5	
10440	2:54:00	77.0	148.7	178.4	0.0	8.17	7.3	
10455	2:54:15	77.2	148.8	178.2	0.0	8.15	7.3	
10470	2:54:30	76.9	148.8	178.3	0.0	8.15	7.2	
10485	2:54:45	77.1	148.8	178.3	0.0	8.16	7.2	
10500	2:55:00	77.1	148.8	178.2	0.0	8.16	7.2	
10515	2:55:15	77.6	148.8	178.2	0.0	8.16	7.2	
10530	2:55:30	77.3	148.9	178.5	0.0	8.18	7.2	
10545	2:55:45	76.8	149.0	178.4	0.0	8.20	7.3	
10560	2:56:00	76.8	149.0	178.3	0.0	8.17	7.3	
10575	2:56:15	76.7	149.1	178.4	0.0	8.18	7.2	
10590	2:56:30	76.8	149.1	178.7	0.0	8.21	7.3	
10605	2:56:45	76.7	149.1	178.7	0.0	8.20	7.4	
10620	2:57:00	76.6	149.2	178.9	0.0	8.18	7.5	End Low Fire Equilibrium - #1
10635	2:57:15	76.4	149.1	178.9	0.0	8.20	7.4	
10650	2:57:30	76.5	149.1	178.9	0.0	8.18	7.5	
10665	2:57:45	77.6	149.1	178.9	0.0	8.18	7.4	
10680	2:58:00	77.8	149.1	179.1	0.0	8.17	7.4	Start Test - Low Fire - #1
10695	2:58:15	77.6	149.1	179.1	0.0	8.17	7.3	
10710	2:58:30	78.1	149.1	179.0	0.0	8.18	7.4	
10725	2:58:45	78.6	149.0	178.9	0.0	8.17	7.3	
10740	2:59:00	78.8	149.0	179.1	0.0	8.17	7.3	
10755	2:59:15	78.7	149.1	179.1	0.0	8.16	7.3	
10770	2:59:30	78.5	149.1	179.0	0.0	8.15	7.3	
10785	2:59:45	78.5	149.1	178.8	0.0	8.14	7.3	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
10800	3:00:00	78.3	149.2	178.7	0.0	8.16	7.2
10815	3:00:15	77.7	149.3	178.5	0.0	8.14	7.2
10830	3:00:30	78.4	149.3	178.9	0.0	8.14	7.1
10845	3:00:45	78.0	149.3	179.6	0.0	8.20	7.2
10860	3:01:00	78.3	149.3	179.9	0.0	8.23	7.5
10875	3:01:15	78.3	149.3	179.6	0.0	8.22	7.8
10890	3:01:30	77.7	149.4	179.1	0.0	8.15	7.6
10905	3:01:45	78.1	149.4	179.2	0.0	8.14	7.4
10920	3:02:00	77.4	149.4	179.6	0.0	8.22	7.4
10935	3:02:15	77.8	149.4	179.9	0.0	8.21	7.7
10950	3:02:30	78.3	149.5	179.9	0.0	8.24	7.7
10965	3:02:45	77.8	149.5	179.2	0.0	8.17	7.6
10980	3:03:00	77.5	149.5	179.5	0.0	8.14	7.3
10995	3:03:15	77.7	149.5	180.0	0.0	8.21	7.1
11010	3:03:30	77.7	149.6	180.1	0.0	8.17	7.8
11025	3:03:45	78.4	149.7	180.4	0.0	8.21	7.7
11040	3:04:00	78.5	149.7	179.9	0.0	8.18	7.5
11055	3:04:15	78.9	149.7	179.9	0.0	8.14	7.5
11070	3:04:30	78.7	149.8	180.2	0.0	8.17	7.2
11085	3:04:45	78.0	149.7	179.8	0.0	8.17	7.4
11100	3:05:00	77.2	149.7	179.7	0.0	8.15	7.5
11115	3:05:15	77.7	149.8	179.7	0.0	8.15	7.2
11130	3:05:30	77.9	149.8	179.5	0.0	8.14	7.3
11145	3:05:45	77.8	149.9	179.7	0.0	8.14	7.2
11160	3:06:00	78.3	149.9	179.7	0.0	8.17	7.2
11175	3:06:15	78.8	150.0	179.9	0.0	8.16	7.3
11190	3:06:30	78.5	150.0	179.8	0.0	8.15	7.3
11205	3:06:45	78.0	149.9	179.8	0.0	8.15	7.3
11220	3:07:00	77.7	150.0	179.9	0.0	8.15	7.3
11235	3:07:15	77.8	150.0	179.8	0.0	8.16	7.3
11250	3:07:30	77.9	150.0	180.0	0.0	8.16	7.3
11265	3:07:45	77.7	150.0	180.0	0.0	8.18	7.4
11280	3:08:00	77.6	150.1	180.1	0.0	8.17	7.4
11295	3:08:15	77.6	150.0	180.0	0.0	8.17	7.3
11310	3:08:30	77.0	150.1	179.8	0.0	8.14	7.3
11325	3:08:45	76.8	150.2	179.8	0.0	8.13	7.2
11340	3:09:00	76.5	150.2	180.0	0.0	8.14	7.1
11355	3:09:15	76.9	150.3	180.7	0.0	8.17	7.1
11370	3:09:30	77.2	150.3	180.6	0.0	8.20	7.6
11385	3:09:45	78.4	150.3	180.1	0.0	8.15	7.4
11400	3:10:00	77.9	150.3	180.0	0.0	8.13	7.2
11415	3:10:15	77.8	150.2	179.8	0.0	8.12	7.1
11430	3:10:30	77.9	150.2	179.8	0.0	8.13	7.1
11445	3:10:45	77.7	150.2	179.9	0.0	8.15	7.1
11460	3:11:00	77.2	150.2	180.4	0.0	8.17	7.1
11475	3:11:15	76.7	150.3	180.7	0.0	8.20	7.2
11490	3:11:30	76.7	150.3	181.1	0.0	8.21	7.5
11505	3:11:45	76.8	150.4	180.9	0.0	8.22	7.7

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
11520	3:12:00	77.0	150.5	180.6	0.0	8.15	7.5
11535	3:12:15	77.0	150.5	180.6	0.0	8.16	7.2
11550	3:12:30	77.5	150.5	180.4	0.0	8.17	7.3
11565	3:12:45	77.6	150.4	180.3	0.0	8.15	7.3
11580	3:13:00	77.4	150.4	180.2	0.0	8.13	7.2
11595	3:13:15	77.1	150.4	180.4	0.0	8.15	7.1
11610	3:13:30	77.6	150.4	180.5	0.0	8.15	7.3
11625	3:13:45	77.6	150.5	180.5	0.0	8.16	7.3
11640	3:14:00	77.4	150.5	180.5	0.0	8.16	7.3
11655	3:14:15	77.5	150.6	180.6	0.0	8.16	7.4
11670	3:14:30	77.3	150.6	180.5	0.0	8.15	7.3
11685	3:14:45	77.4	150.6	180.6	0.0	8.15	7.3
11700	3:15:00	78.1	150.7	180.6	0.0	8.16	7.3
11715	3:15:15	78.7	150.6	180.6	0.0	8.15	7.3
11730	3:15:30	77.9	150.6	180.7	0.0	8.16	7.3
11745	3:15:45	77.6	150.6	180.7	0.0	8.15	7.3
11760	3:16:00	78.4	150.6	180.7	0.0	8.16	7.3
11775	3:16:15	77.8	150.5	180.4	0.0	8.14	7.4
11790	3:16:30	77.7	150.6	180.3	0.0	8.12	7.2
11805	3:16:45	77.6	150.6	180.4	0.0	8.13	7.1
11820	3:17:00	77.9	150.6	180.5	0.0	8.17	7.4
11835	3:17:15	77.5	150.7	180.4	0.0	8.15	7.6
11850	3:17:30	77.1	150.7	180.3	0.0	8.15	7.2
11865	3:17:45	76.7	150.7	180.3	0.0	8.14	7.2
11880	3:18:00	77.0	150.8	180.5	0.0	8.14	7.2
11895	3:18:15	77.0	150.8	181.0	0.0	8.18	7.2
11910	3:18:30	76.7	150.8	181.1	0.0	8.17	7.8
11925	3:18:45	77.0	150.9	181.3	0.0	8.20	7.5
11940	3:19:00	76.8	150.9	181.0	0.0	8.17	7.4
11955	3:19:15	77.0	150.9	181.3	0.0	8.15	7.5
11970	3:19:30	76.8	150.9	181.4	0.0	8.20	7.4
11985	3:19:45	77.3	150.9	181.6	0.0	8.20	7.4
12000	3:20:00	77.1	150.9	181.9	0.0	8.22	7.6
12015	3:20:15	77.1	150.8	181.9	0.0	8.24	7.7
12030	3:20:30	77.3	150.8	181.4	0.0	8.21	7.9
12045	3:20:45	77.3	150.8	181.0	0.0	8.15	7.6
12060	3:21:00	77.1	150.9	181.1	0.0	8.18	7.3
12075	3:21:15	77.0	151.0	180.7	0.0	8.18	7.4
12090	3:21:30	76.8	151.0	180.5	0.0	8.15	7.4
12105	3:21:45	77.3	151.0	180.8	0.0	8.16	7.3
12120	3:22:00	77.5	151.0	180.9	0.0	8.18	7.3
12135	3:22:15	77.1	151.0	180.9	0.0	8.16	7.4
12150	3:22:30	77.2	151.1	180.8	0.0	8.17	7.4
12165	3:22:45	77.3	151.1	180.7	0.0	8.16	7.3
12180	3:23:00	77.1	151.3	180.8	0.0	8.16	7.3
12195	3:23:15	77.3	151.4	181.0	0.0	8.18	7.3
12210	3:23:30	78.4	151.4	181.1	0.0	8.19	7.4
12225	3:23:45	78.0	151.3	181.1	0.0	8.17	7.4

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12240	3:24:00	77.4	151.3	181.2	0.0	8.18	7.4	
12255	3:24:15	77.7	151.3	181.2	0.0	8.19	7.4	
12270	3:24:30	77.4	151.3	181.3	0.0	8.19	7.4	
12285	3:24:45	77.7	151.2	181.3	0.0	8.18	7.5	
12300	3:25:00	77.8	151.2	181.4	0.0	8.18	7.4	Start Emissions
12315	3:25:15	77.4	151.2	181.4	0.0	8.19	7.4	
12330	3:25:30	77.0	151.2	181.4	0.0	8.19	7.5	
12345	3:25:45	77.2	151.3	181.4	0.0	8.20	7.5	
12360	3:26:00	77.5	151.4	181.5	0.0	8.19	7.4	1st Minute
12375	3:26:15	77.6	151.4	181.5	0.0	8.18	7.4	
12390	3:26:30	77.6	151.4	181.4	0.0	8.18	7.4	
12405	3:26:45	77.4	151.3	181.5	0.0	8.18	7.4	
12420	3:27:00	77.3	151.4	181.9	0.0	8.22	7.6	2nd Minute
12435	3:27:15	77.5	151.4	181.9	0.0	8.23	7.8	
12450	3:27:30	77.1	151.5	181.5	0.0	8.20	7.8	
12465	3:27:45	76.8	151.5	181.4	0.0	8.18	7.6	
12480	3:28:00	77.2	151.5	181.3	0.0	8.20	7.5	3rd Minute / EOT - Low Fire - #1
12495	3:28:15	76.8	151.6	181.3	0.0	8.18	7.5	
12510	3:28:30	76.7	151.6	181.5	0.0	8.17	7.4	CO2 (Avg) % = 8.19
12525	3:28:45	76.9	151.7	181.5	0.0	8.18	7.4	NOx (Avg) ppm = 7.5
12540	3:29:00	76.8	151.7	181.5	0.0	8.18	7.4	CO (Max) ppm = 0.0
12555	3:29:15	77.1	151.7	181.5	0.0	8.17	7.4	Ambient (Avg) F = 77.6
12570	3:29:30	77.4	151.7	181.5	0.0	8.17	7.3	T_In (Avg) F = 150.4
12585	3:29:45	77.4	151.7	181.6	0.0	8.18	7.3	T_Del (Avg) F = 180.4
12600	3:30:00	77.4	151.7	181.7	0.0	8.18	7.4	
12615	3:30:15	77.6	151.7	181.8	0.0	8.17	7.4	
12630	3:30:30	77.6	151.7	181.7	0.0	8.17	7.3	
12645	3:30:45	77.7	151.6	181.7	0.0	8.16	7.3	
12660	3:31:00	77.8	151.6	181.8	0.0	8.17	7.3	
12675	3:31:15	77.6	151.6	181.8	0.0	8.17	7.4	
12690	3:31:30	77.8	151.6	181.7	0.0	8.18	7.3	
12705	3:31:45	77.7	151.5	181.7	0.0	8.18	7.4	
12720	3:32:00	77.3	151.6	181.8	0.0	8.18	7.4	
12735	3:32:15	77.4	151.6	181.7	0.0	8.17	7.3	
12750	3:32:30	77.8	151.7	181.7	0.0	8.16	7.3	
12765	3:32:45	78.5	151.7	181.7	0.0	8.16	7.3	
12780	3:33:00	79.1	151.7	181.8	0.0	8.16	7.3	
12795	3:33:15	79.5	151.8	182.2	0.0	8.19	7.3	
12810	3:33:30	78.5	151.7	182.3	0.0	8.20	7.5	
12825	3:33:45	78.6	151.7	182.3	0.0	8.20	7.5	
12840	3:34:00	77.8	151.7	182.2	0.0	8.19	7.5	
12855	3:34:15	77.8	151.8	182.4	0.0	8.20	7.5	
12870	3:34:30	77.6	151.7	179.6	7.5	8.20	7.6	
12885	3:34:45	77.7	151.7	170.0	8.6	1.34	7.3	
12900	3:35:00	77.7	151.8	162.6	0.0	0.23	4.2	
12915	3:35:15	77.8	152.1	157.1	0.0	0.15	1.3	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
12930	3:35:30	77.9	151.7	155.5	0.0	0.12	1.2
12945	3:35:45	77.8	151.3	154.9	0.0	0.14	1.1
12960	3:36:00	78.0	151.1	154.6	0.6	0.19	1.2
12975	3:36:15	78.0	151.0	154.5	4.4	0.24	1.3
12990	3:36:30	77.9	150.9	154.5	7.5	0.27	1.4
13005	3:36:45	78.2	150.7	154.4	9.7	0.28	1.5
13020	3:37:00	78.0	150.3	154.1	11.8	0.28	1.5
13035	3:37:15	77.9	150.0	154.4	12.9	0.26	1.5
13050	3:37:30	77.8	150.1	154.5	13.9	0.25	1.5
13065	3:37:45	78.0	149.7	154.4	14.5	0.23	1.5
13080	3:38:00	77.5	149.0	154.2	15.5	0.23	1.4
13095	3:38:15	77.6	148.7	154.0	15.5	0.21	1.4
13110	3:38:30	78.1	148.6	154.0	16.1	0.20	1.4
13125	3:38:45	78.2	148.4	153.9	15.5	0.18	1.3
13140	3:39:00	77.9	148.2	154.0	16.1	0.17	1.3
13155	3:39:15	77.3	147.8	153.8	16.6	0.16	1.3
13170	3:39:30	77.5	147.2	153.7	17.1	0.16	1.2
13185	3:39:45	77.7	146.5	153.4	17.7	0.15	1.2
13200	3:40:00	78.7	145.6	153.5	17.7	0.15	1.2
13215	3:40:15	79.1	144.6	153.6	17.1	0.14	1.2
13230	3:40:30	78.6	143.8	153.4	16.6	0.13	1.1
13245	3:40:45	78.7	142.9	153.1	16.6	0.13	1.1
13260	3:41:00	78.8	141.8	152.7	16.1	0.12	1.1
13275	3:41:15	78.8	141.1	152.4	13.9	0.10	1.1
13290	3:41:30	78.7	140.4	152.0	13.4	0.10	1.0
13305	3:41:45	78.5	138.9	151.6	12.9	0.10	1.0
13320	3:42:00	77.8	135.0	151.3	12.9	0.10	1.0
13335	3:42:15	78.7	128.7	150.0	12.3	0.09	1.0
13350	3:42:30	79.5	121.3	148.3	11.8	0.09	0.9
13365	3:42:45	79.7	112.2	146.3	11.3	0.09	0.9
13380	3:43:00	79.7	98.4	142.6	10.7	0.08	0.9
13395	3:43:15	78.9	89.8	136.1	10.7	0.08	0.9
13410	3:43:30	78.5	84.4	125.7	11.3	0.08	0.9
13425	3:43:45	79.3	81.1	112.6	10.7	0.08	0.9
13440	3:44:00	79.9	79.0	101.9	10.7	0.08	0.8
13455	3:44:15	79.4	77.5	94.2	10.2	0.08	0.8
13470	3:44:30	79.6	76.4	88.7	9.1	0.07	0.8
13485	3:44:45	79.2	75.7	85.0	8.1	0.07	0.8
13500	3:45:00	79.5	75.1	82.4	7.6	0.07	0.7
13515	3:45:15	79.7	74.7	80.6	7.0	0.07	0.7
13530	3:45:30	79.7	74.3	79.3	6.0	0.06	0.7
13545	3:45:45	78.9	74.0	78.2	5.4	0.06	0.7
13560	3:46:00	78.8	73.8	77.6	4.9	0.06	0.6
13575	3:46:15	78.5	73.4	76.8	3.8	0.06	0.6
13590	3:46:30	78.5	73.2	76.3	3.3	0.05	0.6
13605	3:46:45	78.8	73.1	76.0	2.2	0.06	0.6
13620	3:47:00	78.4	72.8	75.6	1.7	0.06	0.5
13635	3:47:15	78.0	72.7	75.3	1.2	0.06	0.5

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
13650	3:47:30	78.8	72.6	75.0	0.6	0.05	0.5
13665	3:47:45	79.5	72.4	74.8	0.1	0.05	0.5
13680	3:48:00	78.8	72.2	74.6	0.1	0.05	0.5
13695	3:48:15	78.9	72.0	74.4	0.1	0.05	0.4
13710	3:48:30	78.9	71.7	76.3	0.0	0.05	0.4
13725	3:48:45	79.2	71.6	87.3	32.7	0.59	0.4
13740	3:49:00	78.7	71.3	91.0	9.8	7.68	2.3
13755	3:49:15	78.1	71.0	91.9	0.6	8.12	4.2
13770	3:49:30	78.0	70.9	92.0	0.0	8.24	6.1
13785	3:49:45	78.5	70.7	91.9	0.0	8.26	6.4
13800	3:50:00	78.9	70.6	88.5	0.0	8.25	6.8
13815	3:50:15	79.1	71.1	86.0	0.0	8.22	6.9
13830	3:50:30	78.8	76.8	85.5	0.0	8.19	6.8
13845	3:50:45	79.2	80.1	90.4	0.0	8.17	6.7
13860	3:51:00	78.9	82.8	98.0	0.0	8.14	6.5
13875	3:51:15	77.9	84.3	102.1	0.0	8.05	6.4
13890	3:51:30	77.6	85.8	105.0	0.0	7.99	5.8
13905	3:51:45	78.3	87.2	106.9	0.0	7.91	5.7
13920	3:52:00	78.6	88.1	108.7	0.0	7.84	5.3
13935	3:52:15	78.3	87.6	110.4	0.0	7.76	5.0
13950	3:52:30	78.3	85.6	111.0	0.0	7.60	4.6
13965	3:52:45	77.8	84.9	111.3	0.0	7.47	4.2
13980	3:53:00	78.2	87.7	112.1	0.6	7.32	3.6
13995	3:53:15	79.2	92.1	113.0	1.7	7.32	3.4
14010	3:53:30	79.5	97.0	113.7	1.7	7.37	3.3
14025	3:53:45	79.4	101.4	113.8	2.2	7.35	3.3
14040	3:54:00	78.4	105.3	113.2	2.2	7.30	3.3
14055	3:54:15	78.9	108.7	113.2	2.2	7.32	3.3
14070	3:54:30	79.5	111.5	114.1	2.2	7.36	3.3
14085	3:54:45	79.5	113.2	115.7	2.2	7.38	3.4
14100	3:55:00	79.1	114.7	119.5	2.2	7.26	3.3
14115	3:55:15	78.9	116.8	122.3	2.2	7.30	3.1
14130	3:55:30	79.6	118.5	123.7	2.2	7.38	3.4
14145	3:55:45	79.7	119.7	126.5	1.2	7.45	3.5
14160	3:56:00	79.7	120.8	129.3	0.6	7.48	3.7
14175	3:56:15	79.1	121.5	132.2	0.6	7.49	3.8
14190	3:56:30	78.4	121.8	134.8	0.1	7.57	3.8
14205	3:56:45	78.7	121.7	137.1	0.0	7.63	4.0
14220	3:57:00	79.0	121.7	139.0	0.0	7.70	4.2
14235	3:57:15	79.0	121.6	140.7	0.0	7.76	4.4
14250	3:57:30	78.5	121.3	141.9	0.0	7.80	4.8
14265	3:57:45	78.2	121.3	142.9	0.0	7.85	4.8
14280	3:58:00	78.9	121.4	143.1	0.0	7.88	5.0
14295	3:58:15	77.8	121.6	143.1	0.0	7.87	5.1
14310	3:58:30	78.1	121.9	143.2	0.0	7.89	5.0
14325	3:58:45	78.8	122.4	143.0	0.0	7.88	5.1
14340	3:59:00	78.0	123.0	143.3	0.0	7.89	5.1
14355	3:59:15	78.0	123.6	143.4	0.0	7.90	5.2

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
14370	3:59:30	78.8	124.2	143.6	0.0	7.90	5.2
14385	3:59:45	78.3	124.9	144.1	0.0	7.91	5.2
14400	4:00:00	77.9	125.5	144.6	0.0	7.92	5.3
14415	4:00:15	77.6	126.2	145.0	0.0	7.93	5.3
14430	4:00:30	77.6	126.7	145.4	0.0	7.94	5.4
14445	4:00:45	77.5	127.3	146.0	0.0	7.95	5.4
14460	4:01:00	78.1	127.7	146.6	0.0	7.95	5.5
14475	4:01:15	78.4	128.1	147.0	0.0	7.93	5.4
14490	4:01:30	78.9	128.4	147.6	0.0	7.93	5.3
14505	4:01:45	78.8	128.7	148.0	0.0	7.92	5.4
14520	4:02:00	78.2	129.0	148.5	0.0	7.94	5.4
14535	4:02:15	77.9	129.2	148.9	0.0	7.94	5.4
14550	4:02:30	77.7	129.4	149.4	0.0	7.93	5.4
14565	4:02:45	77.2	129.6	149.7	0.0	7.94	5.4
14580	4:03:00	77.4	129.8	150.0	0.0	7.94	5.4
14595	4:03:15	77.3	130.1	150.1	0.0	7.94	5.4
14610	4:03:30	78.2	130.2	150.3	0.0	7.91	5.4
14625	4:03:45	78.9	130.4	150.5	0.0	7.90	5.3
14640	4:04:00	78.5	130.5	150.9	0.0	7.95	5.4
14655	4:04:15	78.1	130.7	151.3	0.0	7.95	5.5
14670	4:04:30	78.3	130.8	151.5	0.0	7.96	5.5
14685	4:04:45	77.8	131.0	151.8	0.0	7.96	5.6
14700	4:05:00	77.7	131.1	152.1	0.0	7.95	5.6
14715	4:05:15	77.6	131.2	152.3	0.0	7.95	5.6
14730	4:05:30	77.5	131.3	152.4	0.0	7.96	5.5
14745	4:05:45	78.3	131.5	152.7	0.0	7.97	5.6
14760	4:06:00	78.5	131.5	152.8	0.0	7.98	5.7
14775	4:06:15	78.5	131.6	153.0	0.0	7.96	5.7
14790	4:06:30	78.2	131.6	153.2	0.0	7.99	5.7
14805	4:06:45	78.5	131.6	153.3	0.0	7.98	5.7
14820	4:07:00	78.6	131.6	153.5	0.0	7.97	5.7
14835	4:07:15	78.3	131.8	153.7	0.0	7.97	5.7
14850	4:07:30	78.2	131.8	153.8	0.0	8.00	5.8
14865	4:07:45	77.7	131.8	153.8	0.0	8.01	5.8
14880	4:08:00	77.8	132.0	153.9	0.0	7.99	5.8
14895	4:08:15	78.3	132.0	154.1	0.0	8.00	5.8
14910	4:08:30	77.9	132.0	154.0	0.0	8.00	5.9
14925	4:08:45	78.0	132.1	154.1	0.0	8.01	5.9
14940	4:09:00	78.2	132.2	154.1	0.0	8.04	6.0
14955	4:09:15	78.3	132.3	154.3	0.0	8.04	6.1
14970	4:09:30	78.5	132.4	154.3	0.0	8.03	6.0
14985	4:09:45	77.8	132.4	154.2	0.0	8.01	6.0
15000	4:10:00	77.6	132.6	154.4	0.0	8.01	6.0
15015	4:10:15	77.8	132.6	154.4	0.0	8.01	5.9
15030	4:10:30	77.9	132.8	154.6	0.0	8.02	6.0
15045	4:10:45	78.2	132.8	154.8	0.0	8.05	6.0
15060	4:11:00	78.2	132.8	155.0	0.0	8.04	6.1
15075	4:11:15	78.5	132.7	155.1	0.0	8.04	6.1

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
15090	4:11:30	78.6	132.8	155.2	0.0	8.05	6.1
15105	4:11:45	78.6	132.8	155.5	0.0	8.05	6.1
15120	4:12:00	79.4	132.8	155.5	0.0	8.08	6.3
15135	4:12:15	79.6	132.7	155.4	0.0	8.05	6.3
15150	4:12:30	79.4	132.8	155.5	0.0	8.03	6.2
15165	4:12:45	79.7	132.8	155.8	0.0	8.04	6.1
15180	4:13:00	79.8	132.7	155.9	0.0	8.05	6.2
15195	4:13:15	78.6	132.7	155.5	0.0	8.06	6.3
15210	4:13:30	78.0	132.7	155.1	0.0	8.07	6.4
15225	4:13:45	78.6	132.8	155.1	0.0	8.08	6.4
15240	4:14:00	78.8	132.8	155.4	0.0	8.08	6.4
15255	4:14:15	78.9	132.9	155.7	0.0	8.07	6.4
15270	4:14:30	77.9	133.0	156.0	0.0	8.09	6.4
15285	4:14:45	78.3	133.1	156.0	0.0	8.09	6.5
15300	4:15:00	78.3	133.1	156.4	0.0	8.09	6.5
15315	4:15:15	78.1	133.1	157.2	0.0	8.15	6.5
15330	4:15:30	77.6	133.0	158.7	0.0	8.18	7.0
15345	4:15:45	78.1	132.9	160.1	0.0	8.16	7.0
15360	4:16:00	78.5	132.9	160.7	0.0	8.17	7.1
15375	4:16:15	78.3	132.8	161.0	0.0	8.17	7.1
15390	4:16:30	78.5	132.9	161.0	0.0	8.17	7.1
15405	4:16:45	78.6	133.0	160.9	0.0	8.16	7.1
15420	4:17:00	78.2	133.0	160.9	0.0	8.16	7.1
15435	4:17:15	77.8	133.1	160.9	0.0	8.16	7.1
15450	4:17:30	77.7	133.2	160.9	0.0	8.18	7.1
15465	4:17:45	77.9	133.4	160.9	0.0	8.17	7.1
15480	4:18:00	78.4	133.4	161.0	0.0	8.16	7.1
15495	4:18:15	78.3	133.6	161.2	0.0	8.17	7.1
15510	4:18:30	78.3	133.7	161.3	0.0	8.21	7.2
15525	4:18:45	78.1	133.8	161.3	0.0	8.20	7.3
15540	4:19:00	78.5	134.0	161.3	0.0	8.19	7.3
15555	4:19:15	78.2	134.1	162.1	0.0	8.18	7.2
15570	4:19:30	78.3	134.2	162.8	0.0	8.18	7.2
15585	4:19:45	78.1	134.2	163.7	0.0	8.17	7.2
15600	4:20:00	78.1	134.4	164.2	0.0	8.20	7.3
15615	4:20:15	78.1	134.4	164.5	0.0	8.20	7.3
15630	4:20:30	77.7	134.6	165.0	0.0	8.20	7.4
15645	4:20:45	77.8	134.7	165.2	0.0	8.20	7.4
15660	4:21:00	77.9	134.8	165.4	0.0	8.22	7.4
15675	4:21:15	78.0	134.8	165.3	0.0	8.20	7.4
15690	4:21:30	78.0	134.8	165.2	0.0	8.17	7.3
15705	4:21:45	78.0	134.9	165.2	0.0	8.18	7.3
15720	4:22:00	77.9	134.9	165.4	0.0	8.18	7.2
15735	4:22:15	78.1	135.0	165.5	0.0	8.17	7.2
15750	4:22:30	78.0	135.1	165.5	0.0	8.18	7.2
15765	4:22:45	78.1	135.2	165.6	0.0	8.19	7.3
15780	4:23:00	77.9	135.3	165.7	0.0	8.20	7.3
15795	4:23:15	77.9	135.4	165.8	0.0	8.21	7.4

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
15810	4:23:30	78.0	135.5	165.9	0.0	8.21	7.5
15825	4:23:45	78.3	135.7	166.0	0.0	8.22	7.5
15840	4:24:00	78.7	135.8	166.2	0.0	8.21	7.5
15855	4:24:15	78.4	135.9	166.3	0.0	8.20	7.5
15870	4:24:30	78.5	136.0	166.4	0.0	8.21	7.5
15885	4:24:45	78.6	136.2	166.5	0.0	8.20	7.5
15900	4:25:00	78.5	136.2	166.5	0.0	8.09	7.2
15915	4:25:15	78.5	136.2	166.6	0.0	8.07	7.0
15930	4:25:30	78.5	136.3	166.8	0.0	8.07	6.9
15945	4:25:45	78.4	136.3	166.8	0.0	8.07	6.9
15960	4:26:00	78.4	136.3	166.9	0.0	8.06	6.9
15975	4:26:15	78.0	136.4	167.0	0.0	8.07	6.9
15990	4:26:30	78.2	136.4	167.1	0.0	8.06	6.9
16005	4:26:45	78.1	136.4	167.2	0.0	8.05	6.9
16020	4:27:00	77.9	136.5	167.4	0.0	8.06	6.8
16035	4:27:15	78.2	136.6	167.4	0.0	8.05	6.9
16050	4:27:30	78.5	136.6	167.5	0.0	8.07	6.8
16065	4:27:45	78.3	136.6	167.5	0.0	8.07	6.9
16080	4:28:00	78.3	136.6	167.4	0.0	8.09	6.9
16095	4:28:15	78.7	136.7	167.5	0.0	8.07	7.0
16110	4:28:30	78.6	136.7	167.6	0.0	8.08	6.9
16125	4:28:45	78.5	136.7	167.6	0.0	8.07	6.9
16140	4:29:00	78.3	136.7	167.7	0.0	8.08	6.9
16155	4:29:15	78.4	136.8	167.9	0.0	8.09	6.9
16170	4:29:30	78.4	136.8	167.9	0.0	8.09	7.0
16185	4:29:45	78.4	136.8	167.8	0.0	8.10	7.0
16200	4:30:00	78.5	136.9	167.8	0.0	8.09	6.9
16215	4:30:15	79.4	137.1	168.0	0.0	8.08	6.9
16230	4:30:30	79.5	137.0	168.0	0.0	8.09	6.9
16245	4:30:45	79.8	137.2	167.8	0.0	8.08	7.0
16260	4:31:00	79.4	137.2	167.3	0.0	8.03	6.8
16275	4:31:15	78.8	137.3	167.1	0.0	8.01	6.6
16290	4:31:30	78.8	137.3	167.1	0.0	8.01	6.4
16305	4:31:45	78.9	137.4	167.1	0.0	8.01	6.5
16320	4:32:00	78.2	137.4	167.1	0.0	8.00	6.4
16335	4:32:15	77.9	137.5	167.2	0.0	8.00	6.4
16350	4:32:30	78.1	137.6	167.2	0.0	7.99	6.5
16365	4:32:45	78.0	137.7	167.4	0.0	7.99	6.4
16380	4:33:00	78.1	137.8	167.5	0.0	8.01	6.4
16395	4:33:15	78.3	137.8	167.2	0.0	8.00	6.5
16410	4:33:30	78.4	137.8	167.1	0.0	7.98	6.3
16425	4:33:45	78.6	137.9	167.3	0.0	7.99	6.3
16440	4:34:00	78.7	137.8	167.3	0.0	8.00	6.3
16455	4:34:15	79.0	137.8	167.3	0.0	8.00	6.3
16470	4:34:30	78.9	137.9	167.4	0.0	7.98	6.3
16485	4:34:45	79.3	137.8	167.6	0.0	7.96	6.3
16500	4:35:00	78.6	137.9	167.6	0.0	7.99	6.3
16515	4:35:15	78.6	137.8	167.7	0.0	7.97	6.3

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
16530	4:35:30	78.5	137.9	167.8	0.0	7.96	6.2
16545	4:35:45	78.7	137.9	168.3	0.0	7.97	6.2
16560	4:36:00	78.5	138.0	168.7	0.0	7.99	6.3
16575	4:36:15	78.3	137.9	168.7	0.0	7.97	6.3
16590	4:36:30	78.3	138.0	168.9	0.0	7.97	6.2
16605	4:36:45	78.3	138.0	168.9	0.0	7.98	6.2
16620	4:37:00	78.3	138.2	169.0	0.0	7.98	6.3
16635	4:37:15	79.5	138.2	169.1	0.0	7.99	6.3
16650	4:37:30	79.9	138.3	169.1	0.0	7.99	6.3
16665	4:37:45	79.1	138.3	169.1	0.0	7.97	6.3
16680	4:38:00	79.8	138.4	169.0	0.0	7.98	6.3
16695	4:38:15	79.6	138.5	169.1	0.0	7.98	6.3
16710	4:38:30	79.2	138.5	169.2	0.0	7.99	6.3
16725	4:38:45	78.7	138.5	169.4	0.0	8.00	6.3
16740	4:39:00	78.7	138.6	169.4	0.0	8.00	6.3
16755	4:39:15	79.3	138.6	169.6	0.0	7.99	6.3
16770	4:39:30	79.8	138.7	169.7	0.0	8.01	6.3
16785	4:39:45	79.5	138.7	169.7	0.0	7.98	6.3
16800	4:40:00	78.9	138.7	169.9	0.0	8.00	6.3
16815	4:40:15	78.5	138.8	170.4	0.0	8.00	6.3
16830	4:40:30	78.4	138.8	170.6	0.0	7.99	6.4
16845	4:40:45	78.6	138.8	170.3	0.0	7.99	6.3
16860	4:41:00	78.4	138.9	170.1	0.0	8.01	6.3
16875	4:41:15	78.0	139.0	170.2	0.0	8.00	6.4
16890	4:41:30	78.2	139.1	170.5	0.0	8.02	6.3
16905	4:41:45	78.2	139.3	170.7	0.0	8.03	6.4
16920	4:42:00	78.2	139.3	170.8	0.0	8.03	6.5
16935	4:42:15	78.4	139.6	170.8	0.0	8.04	6.5
16950	4:42:30	78.4	139.7	170.7	0.0	8.03	6.6
16965	4:42:45	78.3	139.9	170.2	0.0	8.01	6.5
16980	4:43:00	78.1	140.0	169.9	0.0	7.93	6.2
16995	4:43:15	78.2	140.2	170.2	0.0	7.97	5.9
17010	4:43:30	78.2	140.3	170.7	0.0	7.99	6.2
17025	4:43:45	78.5	140.4	170.9	0.0	7.99	6.3
17040	4:44:00	79.9	140.6	171.1	0.0	7.99	6.3
17055	4:44:15	79.8	140.7	171.1	0.0	7.97	6.3
17070	4:44:30	79.3	140.7	171.0	0.0	7.96	6.2
17085	4:44:45	79.6	140.8	171.0	0.0	7.95	6.2
17100	4:45:00	79.6	140.9	171.2	0.0	7.94	6.1
17115	4:45:15	80.1	141.0	171.3	0.0	7.94	6.0
17130	4:45:30	79.8	140.9	171.4	0.0	7.95	6.1
17145	4:45:45	79.7	140.9	171.5	0.0	7.95	6.1
17160	4:46:00	79.1	141.0	171.5	0.0	7.95	6.1
17175	4:46:15	79.1	141.0	171.8	0.0	7.94	6.1
17190	4:46:30	78.1	141.1	171.7	0.0	7.94	6.1
17205	4:46:45	78.3	141.1	171.9	0.0	7.96	6.1
17220	4:47:00	78.8	141.2	171.9	0.0	7.97	6.1
17235	4:47:15	78.8	141.2	172.2	0.0	7.95	6.2

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
17250	4:47:30	79.0	141.2	172.7	0.0	7.95	6.1
17265	4:47:45	78.4	141.2	173.2	0.0	7.96	6.1
17280	4:48:00	78.7	141.3	173.4	0.0	7.95	6.1
17295	4:48:15	79.9	141.3	173.6	0.0	7.97	6.1
17310	4:48:30	80.2	141.3	173.7	0.0	7.96	6.1
17325	4:48:45	79.4	141.4	173.9	0.0	7.96	6.1
17340	4:49:00	78.5	141.5	174.1	0.0	7.99	6.2
17355	4:49:15	78.6	141.6	174.2	0.0	8.00	6.3
17370	4:49:30	78.4	141.8	174.5	0.0	8.00	6.3
17385	4:49:45	78.1	142.0	174.5	0.0	8.00	6.4
17400	4:50:00	78.4	142.0	174.5	0.0	7.99	6.4
17415	4:50:15	78.3	142.1	174.6	0.0	8.00	6.4
17430	4:50:30	79.2	142.3	174.7	0.0	7.99	6.4
17445	4:50:45	79.7	142.4	174.8	0.0	8.00	6.4
17460	4:51:00	79.7	142.4	174.9	0.0	8.00	6.3
17475	4:51:15	79.4	142.6	175.2	0.0	8.00	6.3
17490	4:51:30	79.8	142.7	175.3	0.0	7.99	6.3
17505	4:51:45	79.2	142.8	175.6	0.0	7.99	6.3
17520	4:52:00	79.4	142.9	175.5	0.0	7.99	6.3
17535	4:52:15	80.0	143.0	175.4	0.0	7.97	6.3
17550	4:52:30	79.9	143.1	175.1	0.0	7.96	6.2
17565	4:52:45	79.8	143.2	174.6	0.0	7.96	6.2
17580	4:53:00	79.9	143.3	174.2	0.0	7.96	6.2
17595	4:53:15	79.5	143.3	174.0	0.0	7.97	6.2
17610	4:53:30	78.5	143.4	174.1	0.0	7.99	6.2
17625	4:53:45	79.2	143.5	174.1	0.0	7.99	6.2
17640	4:54:00	79.8	143.7	174.1	0.0	7.97	6.3
17655	4:54:15	80.0	143.8	174.0	0.0	7.97	6.2
17670	4:54:30	79.5	143.9	174.3	0.0	7.96	6.1
17685	4:54:45	79.2	144.0	174.7	0.0	7.95	6.1
17700	4:55:00	79.1	144.2	175.2	0.0	7.97	6.1
17715	4:55:15	79.4	144.2	175.5	0.0	7.98	6.1
17730	4:55:30	80.0	144.3	175.6	0.0	7.99	6.2
17745	4:55:45	80.0	144.3	175.8	0.0	7.98	6.2
17760	4:56:00	79.6	144.4	175.9	0.0	7.96	6.2
17775	4:56:15	79.1	144.5	176.0	0.0	7.97	6.2
17790	4:56:30	78.4	144.6	176.1	0.0	7.99	6.2
17805	4:56:45	79.1	144.7	176.1	0.0	7.96	6.2
17820	4:57:00	78.8	144.8	176.4	0.0	7.99	6.2
17835	4:57:15	79.4	144.8	176.6	0.0	7.99	6.2
17850	4:57:30	78.2	144.8	177.0	0.0	8.00	6.3
17865	4:57:45	78.4	144.9	177.0	0.0	8.01	6.4
17880	4:58:00	78.9	144.9	177.2	0.0	8.00	6.4
17895	4:58:15	78.9	145.0	177.4	0.0	8.01	6.4
17910	4:58:30	79.0	145.1	177.5	0.0	7.99	6.4
17925	4:58:45	79.0	145.2	177.5	0.0	8.00	6.4
17940	4:59:00	79.1	145.3	177.6	0.0	8.00	6.4
17955	4:59:15	78.6	145.3	177.5	0.0	8.00	6.4

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
17970	4:59:30	79.3	145.5	177.5	0.0	8.00	6.4	
17985	4:59:45	79.6	145.4	177.3	0.0	8.00	6.4	
18000	5:00:00	79.6	145.6	177.5	0.0	7.98	6.3	
18015	5:00:15	79.0	145.6	177.4	0.0	7.98	6.2	
18030	5:00:30	78.8	145.7	177.5	0.0	7.98	6.3	
18045	5:00:45	78.9	145.7	177.6	0.0	8.00	6.3	
18060	5:01:00	79.8	145.8	177.8	0.0	8.00	6.3	
18075	5:01:15	79.7	145.9	177.9	0.0	7.97	6.4	
18090	5:01:30	78.5	146.0	178.1	0.0	7.98	6.2	
18105	5:01:45	78.7	146.0	178.1	0.0	7.99	6.2	
18120	5:02:00	79.2	146.1	178.2	0.0	7.98	6.3	Start Low Fire Equilibrium - #2
18135	5:02:15	79.4	146.2	178.2	0.0	7.99	6.3	
18150	5:02:30	79.6	146.2	178.3	0.0	7.99	6.3	
18165	5:02:45	78.4	146.3	178.4	0.0	7.98	6.3	
18180	5:03:00	77.9	146.3	178.7	0.0	8.00	6.3	
18195	5:03:15	77.4	146.3	178.9	0.0	8.03	6.3	
18210	5:03:30	77.4	146.4	179.1	0.0	8.02	6.6	
18225	5:03:45	77.8	146.5	179.3	0.0	8.01	6.5	
18240	5:04:00	77.9	146.5	179.3	0.0	8.04	6.5	
18255	5:04:15	77.9	146.5	179.4	0.0	8.02	6.5	
18270	5:04:30	78.2	146.6	179.6	0.0	8.03	6.5	
18285	5:04:45	78.1	146.8	179.6	0.0	8.04	6.5	
18300	5:05:00	78.2	146.8	179.7	0.0	8.04	6.6	
18315	5:05:15	79.0	146.9	179.7	0.0	8.04	6.6	
18330	5:05:30	79.6	146.8	179.9	0.0	8.03	6.5	
18345	5:05:45	79.8	146.9	180.4	0.0	8.00	6.5	
18360	5:06:00	79.6	147.0	180.6	0.0	8.00	6.5	
18375	5:06:15	79.4	147.1	180.8	0.0	8.01	6.5	
18390	5:06:30	78.8	147.1	180.7	0.0	7.99	6.5	
18405	5:06:45	78.7	147.1	180.5	0.0	7.98	6.4	
18420	5:07:00	79.2	147.2	180.4	0.0	7.99	6.3	End Low Fire Equilibrium - #2
18435	5:07:15	79.7	147.3	180.6	0.0	8.00	6.3	
18450	5:07:30	79.6	147.5	180.5	0.0	7.98	6.3	
18465	5:07:45	79.4	147.6	180.7	0.0	7.99	6.3	
18480	5:08:00	79.4	147.8	180.8	0.0	7.99	6.3	Start Test - Low Fire - #2
18495	5:08:15	79.2	148.0	180.9	0.0	7.99	6.3	
18510	5:08:30	78.7	148.0	181.1	0.0	8.01	6.4	
18525	5:08:45	78.1	148.1	181.4	0.0	8.03	6.4	
18540	5:09:00	78.1	148.3	181.7	0.0	8.04	6.5	
18555	5:09:15	78.0	148.4	181.7	0.0	8.02	6.5	
18570	5:09:30	77.8	148.5	181.5	0.0	8.00	6.4	
18585	5:09:45	77.8	148.7	181.7	0.0	7.99	6.3	
18600	5:10:00	77.8	148.7	181.1	0.0	8.01	6.3	
18615	5:10:15	77.9	148.7	181.3	0.0	8.03	6.3	
18630	5:10:30	78.3	148.8	181.6	0.0	8.04	6.5	
18645	5:10:45	78.9	148.8	181.6	0.0	8.03	6.5	
18660	5:11:00	79.4	148.8	181.8	0.0	8.03	6.5	
18675	5:11:15	79.2	148.9	181.9	0.0	8.01	6.6	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
18690	5:11:30	78.6	148.9	181.9	0.0	8.03	6.5
18705	5:11:45	78.5	149.0	181.9	0.0	8.03	6.5
18720	5:12:00	79.3	149.0	181.8	0.0	8.03	6.5
18735	5:12:15	79.6	149.0	181.9	0.0	8.03	6.5
18750	5:12:30	80.2	149.1	181.9	0.0	8.03	6.5
18765	5:12:45	80.2	149.1	181.8	0.0	8.01	6.5
18780	5:13:00	79.6	149.1	181.8	0.0	7.99	6.4
18795	5:13:15	79.9	149.2	181.8	0.0	8.00	6.4
18810	5:13:30	79.8	149.2	181.9	0.0	8.02	6.5
18825	5:13:45	78.9	149.1	181.7	0.0	8.01	6.5
18840	5:14:00	79.3	149.1	181.6	0.0	8.01	6.5
18855	5:14:15	79.3	149.0	181.8	0.0	8.02	6.5
18870	5:14:30	79.1	148.9	181.9	0.0	7.99	6.5
18885	5:14:45	79.6	148.7	181.8	0.0	7.99	6.4
18900	5:15:00	79.7	148.6	181.6	0.0	7.97	6.3
18915	5:15:15	79.6	148.5	181.8	0.0	7.99	6.3
18930	5:15:30	79.1	148.4	181.5	0.0	7.98	6.3
18945	5:15:45	78.3	148.3	181.8	0.0	7.99	6.3
18960	5:16:00	79.0	148.2	181.7	0.0	8.00	6.4
18975	5:16:15	79.5	148.2	181.8	0.0	8.00	6.4
18990	5:16:30	79.3	148.1	181.7	0.0	8.00	6.4
19005	5:16:45	79.8	148.1	181.7	0.0	7.98	6.4
19020	5:17:00	79.3	148.0	181.8	0.0	7.98	6.3
19035	5:17:15	78.7	147.9	181.8	0.0	7.99	6.3
19050	5:17:30	78.4	147.8	181.8	0.0	7.98	6.3
19065	5:17:45	79.0	147.6	181.9	0.0	7.99	6.3
19080	5:18:00	79.4	147.5	181.7	0.0	7.98	6.3
19095	5:18:15	79.4	147.4	181.8	0.0	7.99	6.3
19110	5:18:30	79.2	147.1	181.9	0.0	7.98	6.3
19125	5:18:45	77.5	147.0	181.9	0.0	7.98	6.3
19140	5:19:00	78.6	146.9	182.0	0.0	7.99	6.3
19155	5:19:15	78.4	146.8	181.5	0.0	8.00	6.4
19170	5:19:30	78.8	146.7	181.6	0.0	8.03	6.5
19185	5:19:45	79.2	146.7	181.7	0.0	8.03	6.6
19200	5:20:00	78.7	146.6	181.7	0.0	8.03	6.6
19215	5:20:15	79.0	146.5	181.8	0.0	8.03	6.5
19230	5:20:30	78.9	146.4	181.4	0.0	8.04	6.6
19245	5:20:45	78.7	146.3	180.8	0.0	8.03	6.6
19260	5:21:00	78.3	146.2	180.5	0.0	8.03	6.6
19275	5:21:15	78.3	146.2	180.3	0.0	8.03	6.5
19290	5:21:30	78.3	146.3	180.3	0.0	8.04	6.5
19305	5:21:45	78.4	146.3	180.3	0.0	8.03	6.5
19320	5:22:00	78.3	146.2	180.0	0.0	8.03	6.5
19335	5:22:15	79.1	146.0	179.8	0.0	8.00	6.5
19350	5:22:30	79.7	145.9	179.6	0.0	8.01	6.3
19365	5:22:45	79.7	145.9	179.7	0.0	7.99	6.3
19380	5:23:00	79.7	145.8	179.6	0.0	8.00	6.4
19395	5:23:15	79.9	145.7	179.4	0.0	8.00	6.4

Comments

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
19410	5:23:30	79.8	145.7	179.7	0.0	8.01	6.4	
19425	5:23:45	79.3	145.6	179.9	0.0	7.99	6.4	
19440	5:24:00	78.9	145.6	180.0	0.0	8.00	6.4	
19455	5:24:15	78.7	145.4	180.0	0.0	8.01	6.4	
19470	5:24:30	78.7	145.4	179.9	0.0	8.00	6.4	
19485	5:24:45	78.9	145.4	179.5	0.0	8.01	6.4	
19500	5:25:00	79.0	145.4	179.2	0.0	7.99	6.4	
19515	5:25:15	79.1	145.5	179.2	0.0	7.99	6.4	
19530	5:25:30	79.0	145.4	179.1	0.0	7.99	6.4	
19545	5:25:45	79.4	145.3	179.0	0.0	8.00	6.4	
19560	5:26:00	79.9	145.4	178.7	0.0	8.01	6.4	
19575	5:26:15	79.9	145.5	178.5	0.0	8.03	6.5	
19590	5:26:30	79.6	145.4	178.5	0.0	8.03	6.6	
19605	5:26:45	79.6	145.6	178.5	0.0	8.01	6.5	
19620	5:27:00	79.8	145.6	178.5	0.0	8.03	6.5	
19635	5:27:15	80.0	145.6	178.6	0.0	8.03	6.5	
19650	5:27:30	79.4	145.5	178.8	0.0	8.03	6.5	
19665	5:27:45	78.8	145.5	179.1	0.0	8.03	6.6	
19680	5:28:00	79.2	145.3	179.3	0.0	8.03	6.6	
19695	5:28:15	79.1	145.3	179.4	0.0	8.03	6.6	
19710	5:28:30	79.1	145.3	179.0	0.0	8.00	6.6	
19725	5:28:45	79.7	145.3	178.8	0.0	7.99	6.4	
19740	5:29:00	79.8	145.3	178.8	0.0	8.00	6.4	
19755	5:29:15	80.1	145.3	178.9	0.0	8.02	6.4	
19770	5:29:30	80.1	145.3	178.8	0.0	8.03	6.5	
19785	5:29:45	79.0	145.4	178.8	0.0	8.01	6.5	
19800	5:30:00	78.4	145.3	178.8	0.0	7.99	6.4	
19815	5:30:15	78.1	145.4	179.2	0.0	8.02	6.4	
19830	5:30:30	77.9	145.4	179.2	0.0	8.03	6.5	
19845	5:30:45	78.0	145.5	179.2	0.0	8.03	6.5	
19860	5:31:00	78.2	145.5	178.9	0.0	8.03	6.5	
19875	5:31:15	78.4	145.6	178.8	0.0	8.04	6.5	
19890	5:31:30	78.3	145.6	178.7	0.0	8.04	6.6	
19905	5:31:45	78.1	145.6	178.6	0.0	8.02	6.6	
19920	5:32:00	78.1	145.7	178.8	0.0	8.01	6.5	
19935	5:32:15	78.6	145.6	178.9	0.0	8.01	6.4	
19950	5:32:30	78.8	145.6	179.1	0.0	8.01	6.4	
19965	5:32:45	78.6	145.5	179.4	0.0	8.02	6.4	
19980	5:33:00	78.2	145.5	179.6	0.0	8.05	6.5	
19995	5:33:15	78.4	145.5	179.4	0.0	8.02	6.6	
20010	5:33:30	79.7	145.5	179.5	0.0	8.01	6.4	
20025	5:33:45	80.3	145.6	179.7	0.0	8.02	6.4	
20040	5:34:00	79.6	145.7	179.8	0.0	8.03	6.5	
20055	5:34:15	78.8	145.7	179.6	0.0	8.03	6.5	
20070	5:34:30	78.3	145.7	179.8	0.0	8.03	6.6	
20085	5:34:45	78.9	145.7	179.7	0.0	8.05	6.6	
20100	5:35:00	78.7	145.6	179.4	0.0	8.05	6.6	Start Emissions
20115	5:35:15	78.7	145.6	179.2	0.0	8.04	6.6	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20130	5:35:30	79.4	145.6	179.1	0.0	8.04	6.6	
20145	5:35:45	79.2	145.6	179.1	0.0	8.03	6.6	
20160	5:36:00	79.4	145.6	178.8	0.0	8.03	6.6	1st Minute
20175	5:36:15	79.7	145.5	178.6	0.0	8.01	6.5	
20190	5:36:30	79.8	145.4	178.4	0.0	7.98	6.4	
20205	5:36:45	79.7	145.4	178.6	0.0	7.99	6.3	
20220	5:37:00	79.4	145.3	178.6	0.0	8.00	6.3	2nd Minute
20235	5:37:15	79.3	145.2	178.6	0.0	8.01	6.4	
20250	5:37:30	79.8	145.3	178.6	0.0	8.00	6.4	
20265	5:37:45	78.6	145.2	178.6	0.0	8.00	6.4	
20280	5:38:00	78.2	145.2	178.6	0.0	8.01	6.4	3rd Minute / EOT - Low Fire - #2
20295	5:38:15	77.5	145.2	178.5	0.0	8.00	6.4	
20310	5:38:30	78.0	145.2	178.7	0.0	8.00	6.4	CO2 (Avg) % = 8.01
20325	5:38:45	78.0	145.2	178.8	0.0	8.02	6.4	NOx (Avg) ppm = 6.5
20340	5:39:00	79.0	145.1	178.5	0.0	8.00	6.4	CO (Max) ppm = 0.0
20355	5:39:15	78.8	145.1	178.4	0.0	8.01	6.3	Ambient (Avg) F = 79.0
20370	5:39:30	78.5	145.1	178.6	0.0	8.03	6.4	T_In (Avg) F = 146.7
20385	5:39:45	78.6	145.0	178.7	0.0	8.02	6.4	T_Del (Avg) F = 180.3
20400	5:40:00	77.8	145.0	178.6	0.0	8.02	6.5	
20415	5:40:15	77.5	145.0	178.7	0.0	8.04	6.5	
20430	5:40:30	77.9	145.0	178.7	0.0	8.03	6.6	
20445	5:40:45	77.8	145.0	178.7	0.0	8.00	6.5	
20460	5:41:00	77.9	144.9	178.8	0.0	8.04	6.5	
20475	5:41:15	77.6	145.0	178.8	0.0	8.05	6.6	
20490	5:41:30	77.6	145.0	178.9	0.0	8.06	6.7	
20505	5:41:45	77.6	145.0	178.9	0.0	8.04	6.6	
20520	5:42:00	77.7	145.0	178.9	0.0	8.06	6.6	
20535	5:42:15	77.8	145.0	178.9	0.0	8.06	6.7	
20550	5:42:30	78.4	145.1	178.8	0.0	8.05	6.7	
20565	5:42:45	78.5	145.1	178.8	0.0	8.03	6.6	
20580	5:43:00	78.4	145.0	178.7	0.0	8.05	6.6	
20595	5:43:15	78.4	145.0	178.9	0.0	8.05	6.6	
20610	5:43:30	78.2	145.0	178.8	0.0	8.05	6.6	
20625	5:43:45	79.2	145.1	178.8	0.0	8.04	6.6	
20640	5:44:00	79.1	145.1	178.7	0.0	8.03	6.5	
20655	5:44:15	78.7	145.0	178.4	0.0	8.01	6.5	
20670	5:44:30	78.4	145.0	177.2	0.0	8.02	6.4	
20685	5:44:45	78.5	144.9	172.8	12.4	2.22	6.4	
20700	5:45:00	77.8	144.6	167.9	0.0	0.27	3.8	
20715	5:45:15	78.1	144.5	163.0	0.0	0.16	1.2	
20730	5:45:30	78.6	144.3	159.1	0.0	0.13	1.0	
20745	5:45:45	78.8	144.2	156.2	0.0	0.05	1.4	
20760	5:46:00	78.3	144.0	153.9	0.0	0.00	1.0	Start Zero OUT
20775	5:46:15	78.3	143.8	152.2	0.0	0.00	0.1	
20790	5:46:30	78.5	143.3	151.4	0.0	0.00	0.1	
20805	5:46:45	78.3	142.7	152.3	0.0	0.00	0.0	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
20820	5:47:00	78.1	142.2	152.4	0.0	0.00	0.0	
20835	5:47:15	77.9	142.9	150.3	0.0	0.00	0.0	
20850	5:47:30	78.2	142.8	148.0	0.0	0.00	0.0	
20865	5:47:45	78.1	144.7	146.3	0.0	0.00	0.0	
20880	5:48:00	78.7	147.2	145.0	0.0	0.00	0.0	
20895	5:48:15	79.3	138.6	144.1	0.0	0.00	0.0	
20910	5:48:30	79.6	128.3	143.9	0.0	0.00	0.0	
20925	5:48:45	78.4	121.9	143.7	0.0	0.00	0.0	
20940	5:49:00	77.9	116.2	144.0	0.0	0.00	0.0	
20955	5:49:15	77.9	110.9	144.3	0.0	0.00	0.0	
20970	5:49:30	77.5	106.9	145.1	0.0	0.00	0.0	
20985	5:49:45	77.4	103.1	145.6	0.0	0.00	0.0	
21000	5:50:00	77.8	99.6	145.4	0.0	0.00	0.0	
21015	5:50:15	78.4	96.4	143.4	0.0	0.00	0.0	
21030	5:50:30	77.8	93.9	139.9	0.0	0.00	0.0	
21045	5:50:45	77.6	91.5	135.2	0.0	0.00	0.0	
21060	5:51:00	77.6	89.3	129.9	0.0	0.00	0.0	Analyzer Zero OUT
21075	5:51:15	77.2	87.2	124.4	0.0	0.00	0.0	
21090	5:51:30	77.3	85.3	119.3	0.0	0.00	0.0	
21105	5:51:45	77.8	83.8	114.3	0.0	0.00	0.0	
21120	5:52:00	77.2	82.2	109.9	259.6	0.81	0.0	
21135	5:52:15	77.0	81.0	105.9	869.4	8.98	0.0	
21150	5:52:30	77.6	79.8	102.3	950.3	9.37	25.5	
21165	5:52:45	78.5	78.9	99.1	959.2	9.45	25.9	
21180	5:53:00	78.1	78.1	96.1	962.4	9.46	26.3	
21195	5:53:15	77.6	77.4	93.6	963.4	9.47	26.4	
21210	5:53:30	77.4	76.8	91.3	963.4	9.47	26.5	
21225	5:53:45	77.8	76.2	89.2	964.0	9.48	26.5	
21240	5:54:00	77.5	75.6	87.4	964.0	9.48	26.5	Start High Span OUT
21255	5:54:15	77.0	75.2	85.7	964.0	9.48	26.5	
21270	5:54:30	77.3	74.7	84.4	964.5	9.48	26.6	
21285	5:54:45	77.4	74.3	83.1	964.5	9.48	26.6	
21300	5:55:00	77.5	73.9	82.0	964.5	9.48	26.6	
21315	5:55:15	76.5	73.7	81.1	964.5	9.48	26.6	
21330	5:55:30	77.1	73.3	80.3	964.5	9.48	26.6	
21345	5:55:45	77.1	73.1	79.5	964.7	9.48	26.6	
21360	5:56:00	76.9	72.7	78.8	965.0	9.48	26.6	
21375	5:56:15	76.7	72.5	78.1	965.0	9.48	26.6	
21390	5:56:30	77.8	72.3	77.7	965.0	9.48	26.6	
21405	5:56:45	78.4	72.1	77.1	965.0	9.48	26.6	
21420	5:57:00	79.0	71.8	76.7	965.0	9.48	26.6	
21435	5:57:15	79.3	71.7	76.3	965.0	9.49	26.6	
21450	5:57:30	79.6	71.6	75.9	965.0	9.48	26.6	
21465	5:57:45	79.7	71.4	75.5	965.0	9.48	26.6	
21480	5:58:00	79.6	71.2	75.1	965.0	9.48	26.6	
21495	5:58:15	79.3	71.0	74.8	965.0	9.49	26.6	
21510	5:58:30	79.2	70.9	74.5	965.0	9.48	26.7	
21525	5:58:45	79.2	70.8	74.2	965.0	9.48	26.7	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
21540	5:59:00	79.9	70.8	74.0	965.0	9.48	26.7	Analyzer High Span OUT
21555	5:59:15	79.6	70.6	73.7	965.0	9.49	26.7	
21570	5:59:30	79.8	70.6	73.6	965.0	9.49	26.6	
21585	5:59:45	78.7	70.5	73.4	936.9	9.48	26.5	
21600	6:00:00	78.7	70.4	73.2	568.3	5.40	21.6	
21615	6:00:15	78.9	70.4	73.1	503.6	5.06	16.9	
21630	6:00:30	78.8	70.4	72.9	496.7	5.01	14.5	
21645	6:00:45	78.9	70.3	72.8	495.0	5.01	14.5	
21660	6:01:00	79.1	70.3	72.7	494.0	5.01	14.5	
21675	6:01:15	79.3	70.1	72.5	494.0	5.01	14.5	
21690	6:01:30	79.4	70.1	72.4	494.0	5.01	14.5	Start Mid Span OUT
21705	6:01:45	79.1	70.0	72.3	494.0	5.00	14.5	
21720	6:02:00	79.2	70.0	72.2	494.0	5.00	14.5	
21735	6:02:15	79.0	69.9	72.1	494.0	5.01	14.5	
21750	6:02:30	79.2	69.9	72.0	494.0	5.01	14.5	
21765	6:02:45	79.2	69.9	71.9	494.0	5.01	14.5	
21780	6:03:00	79.4	69.8	71.8	494.0	5.00	14.5	
21795	6:03:15	79.6	69.8	71.7	494.0	5.00	14.5	
21810	6:03:30	79.5	69.8	71.6	494.0	5.01	14.5	
21825	6:03:45	79.2	69.6	71.4	494.0	5.00	14.5	
21840	6:04:00	78.9	69.6	71.3	494.0	5.00	14.5	Analyzer Mid Span OUT
21855	6:04:15	79.0	69.6	71.2	494.0	5.01	14.5	
21870	6:04:30	78.7	69.5	71.0	494.0	5.01	14.5	
21885	6:04:45	78.6	69.5	71.0	494.0	5.00	14.5	
21900	6:05:00	78.5	69.4	71.0	494.0	5.00	14.5	
21915	6:05:15	78.4	69.4	70.9	494.0	5.00	14.5	
21930	6:05:30	78.9	69.4	70.9	494.0	5.00	14.5	
21945	6:05:45	78.8	69.5	70.9	494.0	5.01	14.5	
21960	6:06:00	79.6	69.5	71.0	494.0	5.01	14.5	
21975	6:06:15	79.2	69.5	71.0	494.0	5.01	14.5	
21990	6:06:30	79.3	69.5	71.1	494.0	5.01	14.5	Start Low Span OUT
22005	6:06:45	80.0	69.5	71.1	494.0	5.01	14.5	
22020	6:07:00	80.1	69.6	71.1	494.0	5.01	14.5	
22035	6:07:15	80.0	69.7	71.2	494.0	5.00	14.5	
22050	6:07:30	79.3	69.7	71.3	494.0	5.00	14.4	
22065	6:07:45	78.4	69.8	71.4	494.0	5.00	14.2	
22080	6:08:00	78.6	69.9	71.5	422.3	5.00	10.3	
22095	6:08:15	78.8	69.9	71.8	245.4	2.49	6.6	
22110	6:08:30	78.9	70.0	71.8	238.5	2.56	7.3	
22125	6:08:45	78.7	69.9	72.0	236.9	2.57	7.1	
22140	6:09:00	78.4	70.0	72.1	236.4	2.57	6.8	
22155	6:09:15	78.0	70.0	72.2	236.5	2.57	6.9	
22170	6:09:30	77.9	70.1	72.3	236.5	2.57	6.9	
22185	6:09:45	78.2	70.1	72.4	236.5	2.57	6.9	
22200	6:10:00	78.2	70.0	72.4	236.5	2.57	6.9	
22215	6:10:15	78.4	70.0	72.4	236.5	2.57	6.9	
22230	6:10:30	78.0	70.1	72.6	236.5	2.57	6.9	
22245	6:10:45	78.0	70.1	72.6	236.5	2.57	6.9	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22260	6:11:00	78.2	70.2	72.7	236.5	2.57	6.9	
22275	6:11:15	77.7	70.3	72.7	236.5	2.57	6.9	
22290	6:11:30	77.9	70.3	72.8	236.5	2.57	6.9	
22305	6:11:45	78.0	70.3	72.9	236.5	2.57	6.9	
22320	6:12:00	78.0	70.3	72.8	236.5	2.57	6.9	
22335	6:12:15	78.0	70.4	72.9	236.5	2.57	6.9	
22350	6:12:30	77.9	70.4	72.9	236.5	2.57	6.9	
22365	6:12:45	77.9	70.4	73.0	236.5	2.58	6.9	
22380	6:13:00	78.2	70.5	73.1	236.5	2.57	6.9	
22395	6:13:15	78.3	70.5	73.2	236.5	2.58	6.9	
22410	6:13:30	78.2	70.6	73.2	236.5	2.57	6.9	
22425	6:13:45	78.1	70.6	73.2	236.5	2.57	6.9	
22440	6:14:00	78.2	70.6	73.3	236.5	2.58	6.9	
22455	6:14:15	78.1	70.7	73.3	236.5	2.57	6.9	
22470	6:14:30	78.1	70.7	73.3	236.5	2.57	6.9	
22485	6:14:45	78.1	70.7	73.3	236.5	2.57	6.9	
22500	6:15:00	78.1	70.7	73.4	236.5	2.57	6.9	Analyzer Low Span OUT
22515	6:15:15	78.2	70.7	73.4	236.5	2.58	6.9	
22530	6:15:30	78.3	70.7	73.4	236.5	2.57	6.9	
22545	6:15:45	78.1	70.7	73.4	236.5	2.57	6.9	
22560	6:16:00	77.8	70.7	73.5	236.5	2.57	6.8	
22575	6:16:15	77.8	70.8	73.5	76.1	0.94	6.8	
22590	6:16:30	77.8	70.8	73.5	1.2	0.04	2.1	
22605	6:16:45	77.7	70.8	73.5	0.0	0.01	1.4	
22620	6:17:00	77.6	70.9	73.6	0.0	0.00	0.6	
22635	6:17:15	77.7	70.9	73.6	0.0	0.00	0.6	
22650	6:17:30	77.8	70.9	73.6	0.0	0.00	0.6	
22665	6:17:45	77.7	71.0	73.6	0.0	0.00	0.6	
22680	6:18:00	77.9	70.9	73.6	0.0	0.00	0.5	Start Zero Bias OUT
22695	6:18:15	77.9	70.9	73.6	0.0	0.00	0.5	
22710	6:18:30	77.9	70.9	73.7	0.0	0.00	0.5	
22725	6:18:45	77.9	71.1	73.8	0.0	0.00	0.5	
22740	6:19:00	77.9	71.0	73.8	0.0	0.00	0.4	
22755	6:19:15	78.0	71.1	73.8	0.0	0.00	0.4	
22770	6:19:30	78.1	71.1	73.8	0.0	0.00	0.4	
22785	6:19:45	78.0	71.1	73.8	0.0	0.00	0.4	
22800	6:20:00	78.1	71.2	73.9	0.0	0.00	0.4	
22815	6:20:15	78.0	71.2	73.9	0.0	0.00	0.4	
22830	6:20:30	77.8	71.2	73.9	0.0	0.00	0.3	
22845	6:20:45	77.4	71.3	74.0	0.0	0.00	0.3	
22860	6:21:00	77.4	71.2	73.9	0.0	0.00	0.3	
22875	6:21:15	77.2	71.3	74.0	0.0	0.00	0.3	
22890	6:21:30	77.1	71.3	74.0	0.0	0.00	0.3	
22905	6:21:45	77.4	71.4	74.0	0.0	0.00	0.3	
22920	6:22:00	77.3	71.4	74.1	0.0	0.00	0.3	
22935	6:22:15	77.2	71.5	74.1	0.0	0.00	0.3	
22950	6:22:30	77.3	71.6	74.1	0.0	0.00	0.2	
22965	6:22:45	77.3	71.6	74.2	0.0	0.00	0.2	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
22980	6:23:00	77.2	71.6	74.2	0.0	0.00	0.2	System Zero OUT
22995	6:23:15	77.7	71.6	74.2	0.0	0.00	0.2	
23010	6:23:30	77.6	71.6	74.3	0.0	0.00	0.2	
23025	6:23:45	77.4	71.6	74.3	0.0	0.00	0.2	
23040	6:24:00	77.6	71.7	74.2	64.1	0.14	0.2	
23055	6:24:15	77.4	71.7	74.3	415.9	4.69	0.2	
23070	6:24:30	77.4	71.7	74.4	474.3	4.90	0.2	
23085	6:24:45	77.7	71.8	74.4	481.8	4.96	0.2	
23100	6:25:00	77.7	71.8	74.4	484.4	4.97	0.2	
23115	6:25:15	78.0	71.9	74.4	485.5	4.98	0.2	
23130	6:25:30	78.2	71.8	74.4	486.0	4.98	0.2	Start Mid CO/CO2 Bias OUT
23145	6:25:45	77.8	71.9	74.5	486.0	4.98	0.2	
23160	6:26:00	77.8	71.8	74.4	486.0	4.98	0.2	
23175	6:26:15	77.8	71.8	74.4	486.0	4.98	0.2	
23190	6:26:30	77.9	71.9	74.5	486.0	4.98	0.2	
23205	6:26:45	78.0	71.9	74.5	486.0	4.98	0.2	
23220	6:27:00	77.9	71.9	74.5	486.6	4.98	0.1	
23235	6:27:15	77.7	71.9	74.5	486.6	4.99	0.1	
23250	6:27:30	77.8	72.0	74.5	486.6	4.98	0.1	
23265	6:27:45	77.9	72.0	74.5	486.6	4.99	0.1	System Mid CO/CO2 OUT
23280	6:28:00	78.0	72.0	74.6	486.6	4.99	0.1	
23295	6:28:15	77.9	72.1	74.5	486.6	4.99	0.1	
23310	6:28:30	77.8	72.0	74.6	486.6	4.99	0.1	
23325	6:28:45	78.0	72.1	74.6	486.6	4.99	0.1	
23340	6:29:00	78.1	72.2	74.6	486.5	4.99	0.1	
23355	6:29:15	77.9	72.2	74.6	486.5	4.99	0.1	
23370	6:29:30	77.9	72.2	74.7	487.1	4.99	0.1	
23385	6:29:45	77.8	72.1	74.6	486.5	4.99	0.1	
23400	6:30:00	77.9	72.1	74.6	486.6	4.99	0.1	Start Low CO/CO2 Bias OUT
23415	6:30:15	78.0	72.1	74.7	486.5	4.99	0.1	
23430	6:30:30	77.9	72.1	74.7	486.5	4.99	0.1	
23445	6:30:45	77.6	72.1	74.7	486.5	4.99	0.1	
23460	6:31:00	77.8	72.2	74.7	486.5	4.99	0.1	
23475	6:31:15	77.7	72.3	74.7	486.5	4.99	0.1	
23490	6:31:30	77.7	72.3	74.8	486.6	4.99	0.1	
23505	6:31:45	77.9	72.3	74.8	486.5	4.99	0.1	
23520	6:32:00	77.8	72.3	74.8	480.9	4.99	0.1	
23535	6:32:15	78.0	72.4	74.8	169.3	1.67	0.1	
23550	6:32:30	78.0	72.4	74.8	139.5	1.26	0.1	
23565	6:32:45	78.1	72.4	74.8	220.4	2.51	0.1	
23580	6:33:00	78.1	72.5	74.9	228.4	2.56	0.1	
23595	6:33:15	78.1	72.4	74.8	231.1	2.57	0.1	
23610	6:33:30	77.9	72.4	74.8	231.6	2.58	0.1	
23625	6:33:45	77.8	72.5	74.9	231.6	2.57	0.1	
23640	6:34:00	77.9	72.5	74.9	231.6	2.58	0.1	
23655	6:34:15	77.7	72.5	74.8	231.6	2.58	0.1	
23670	6:34:30	77.6	72.5	74.9	231.6	2.58	0.1	
23685	6:34:45	77.7	72.5	74.9	231.6	2.57	0.1	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
23700	6:35:00	77.7	72.6	74.9	231.6	2.57	0.1	
23715	6:35:15	77.9	72.6	75.0	231.6	2.57	0.1	
23730	6:35:30	77.9	72.6	75.0	231.4	2.57	0.1	
23745	6:35:45	77.7	72.6	75.0	231.1	2.57	0.1	
23760	6:36:00	77.8	72.7	75.0	231.1	2.57	0.1	
23775	6:36:15	78.0	72.7	75.0	231.1	2.57	0.1	
23790	6:36:30	77.6	72.7	75.1	231.6	2.57	0.1	
23805	6:36:45	77.3	72.8	75.1	231.1	2.57	0.1	
23820	6:37:00	77.2	72.7	75.0	231.1	2.57	0.1	
23835	6:37:15	77.7	72.7	75.0	231.6	2.57	0.1	
23850	6:37:30	78.2	72.7	75.1	231.1	2.57	0.1	
23865	6:37:45	78.0	72.8	75.1	231.6	2.57	0.1	
23880	6:38:00	77.6	72.7	75.0	231.6	2.57	0.1	
23895	6:38:15	77.7	72.8	75.1	231.6	2.57	0.1	
23910	6:38:30	77.6	72.8	75.1	231.6	2.57	0.0	
23925	6:38:45	77.6	72.9	75.2	231.1	2.57	0.0	
23940	6:39:00	77.4	72.9	75.2	231.1	2.57	0.0	System Low CO/CO2 OUT
23955	6:39:15	77.7	73.0	75.1	231.1	2.57	0.0	
23970	6:39:30	78.1	72.9	75.2	231.1	2.57	0.0	
23985	6:39:45	77.7	73.0	75.2	228.9	2.57	0.0	
24000	6:40:00	77.2	73.0	75.2	53.3	0.58	0.0	
24015	6:40:15	77.3	73.0	75.3	1.7	0.10	0.0	
24030	6:40:30	77.7	73.1	75.3	0.0	0.03	0.0	
24045	6:40:45	77.9	73.1	75.3	0.0	0.01	6.9	
24060	6:41:00	77.8	73.1	75.2	0.0	0.01	13.9	
24075	6:41:15	77.9	73.1	75.3	0.0	0.01	14.1	
24090	6:41:30	78.0	73.1	75.3	0.0	0.01	14.1	
24105	6:41:45	77.9	73.2	75.3	0.0	0.01	14.1	
24120	6:42:00	78.0	73.1	75.3	0.0	0.02	14.1	Start Mid NOx Bias OUT
24135	6:42:15	77.5	73.1	75.3	0.0	0.02	14.2	
24150	6:42:30	77.5	73.2	75.3	0.0	0.02	14.2	
24165	6:42:45	77.6	73.2	75.3	0.0	0.02	14.2	
24180	6:43:00	77.4	73.2	75.3	0.0	0.02	14.2	
24195	6:43:15	77.6	73.3	75.4	0.0	0.02	14.2	
24210	6:43:30	77.5	73.4	75.5	0.0	0.02	14.2	
24225	6:43:45	77.3	73.4	75.5	0.0	0.02	14.2	
24240	6:44:00	77.5	73.4	75.5	0.0	0.02	14.2	
24255	6:44:15	77.7	73.5	75.5	0.0	0.02	14.2	
24270	6:44:30	77.4	73.5	75.5	0.0	0.03	14.2	
24285	6:44:45	77.1	73.5	75.5	0.0	0.03	14.2	
24300	6:45:00	77.4	73.5	75.6	0.0	0.03	14.2	
24315	6:45:15	77.4	73.5	75.6	0.0	0.03	14.2	
24330	6:45:30	77.4	73.6	75.6	0.0	0.03	14.2	
24345	6:45:45	77.3	73.6	75.6	0.0	0.03	14.2	
24360	6:46:00	77.3	73.7	75.6	0.0	0.03	14.2	
24375	6:46:15	77.3	73.6	75.7	0.0	0.03	14.2	
24390	6:46:30	77.4	73.7	75.7	0.0	0.03	14.2	
24405	6:46:45	77.4	73.6	75.7	0.0	0.04	14.2	

Manufacturer: RIELLO

Date: July 10, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
24420	6:47:00	77.4	73.7	75.8	0.0	0.04	14.2	System Mid NOx OUT
24435	6:47:15	77.9	73.7	75.7	0.0	0.04	14.2	
24450	6:47:30	77.9	73.8	75.7	0.0	0.04	14.2	
24465	6:47:45	77.3	73.8	75.8	0.0	0.04	14.2	
24480	6:48:00	77.4	73.8	75.7	0.0	0.04	14.1	
24495	6:48:15	77.6	73.8	75.8	0.0	0.04	14.0	
24510	6:48:30	78.0	73.7	75.8	0.0	0.05	1.0	
24525	6:48:45	77.8	73.8	75.8	0.0	0.05	3.9	
24540	6:49:00	78.2	73.7	75.7	0.0	0.05	6.7	
24555	6:49:15	78.1	73.7	75.8	0.0	0.05	6.8	
24570	6:49:30	78.1	73.8	75.8	0.0	0.05	6.8	Start Low NOx Bias OUT
24585	6:49:45	78.1	73.8	75.7	0.0	0.05	6.8	
24600	6:50:00	77.8	73.8	75.8	0.0	0.05	6.8	
24615	6:50:15	78.0	73.9	75.8	0.0	0.06	6.8	
24630	6:50:30	78.0	73.9	75.7	0.0	0.06	6.8	
24645	6:50:45	78.0	73.8	75.8	0.0	0.06	6.8	
24660	6:51:00	78.0	73.8	75.8	0.0	0.06	6.8	
24675	6:51:15	77.8	73.8	75.8	0.0	0.06	6.8	
24690	6:51:30	78.0	73.8	75.7	0.0	0.06	6.8	
24705	6:51:45	77.9	73.7	75.7	0.0	0.06	6.8	System Low NOx OUT
24720	6:52:00	77.9	73.8	75.8	0.0	0.07	6.8	
24735	6:52:15	78.1	73.8	75.7	0.0	0.07	6.8	
24750	6:52:30	78.0	73.8	75.8	0.0	0.07	6.7	
24765	6:52:45	77.8	73.9	75.8	0.0	0.07	6.7	
24780	6:53:00	77.8	73.8	75.8	0.0	0.08	6.7	
24795	6:53:15	77.9	73.8	75.8	0.0	0.08	6.8	
24810	6:53:30	78.1	73.9	75.8	0.0	0.08	6.7	
24825	6:53:45	78.0	73.8	75.8	0.0	0.08	6.8	
24840	6:54:00	77.9	73.9	75.7	0.0	0.08	6.8	
24855	6:54:15	78.1	73.9	75.8	0.0	0.08	6.7	System Low NOx OUT
24870	6:54:30	78.0	73.9	75.8	0.0	0.08	6.7	
24885	6:54:45	78.1	74.0	75.8	0.0	0.09	6.7	
24900	6:55:00	78.2	74.0	75.8	0.0	0.09	6.7	
24915	6:55:15	78.1	73.9	75.8	0.0	0.09	6.8	
24930	6:55:30	77.9	74.0	75.8	0.0	0.09	6.7	
Average =		77.1						

APPENDIX E

Test Results for:

SSB 85

Low Run#: 3

Date: July 13, 2015

Test #3

Manufacturer: RIELLO

Model No.: SSB 85

Serial No.: NONE

Minimum Rate

Input Rate = 17,000 Btu/hr

Input Data	Start	Finish	
Ambient Temperature	76.8	77.5	°F
Relative Humidity	58	58	%
Barometer	28.80	28.8	in.Hg
Heating Value	1080	1080	BTU/ft ³
Inlet Pressure	7.2	7.2	in.w.c.
Manifold Pressure	-0.1	-0.1	in.w.c.
Gas Meter Reading	577.18	585.47	ft ³
Gas Temperature	75.0	75.0	°F
Water Meter Reading	699433.0	699458.5	gal

Mass	208.7	lb
Di	8.183	lb/gal
Dn	8.140	lb/gal

Tin	148.7	°F
Tdel	180.4	°F

Calculations		
Test Start	2:10:00	h:mm:ss
Test End	2:40:00	h:mm:ss
Elapsed Time	0:30:00	h:mm:ss
Input Rate	17,016	BTU/hr
Cf	1.090	no units
Ho	6,602	BTU
Uncorrected Volume	8.29	ft ³
Pressure Correction	0.978	no units
Meter Correction	1.000	no units
Temperature Correction	0.972	no units
F	7.88	ft ³
C	8.0	%
P	5.8	ppm

N = 4.9 ng/J
7.4 ppm @ 3% O₂

Date: July 13, 2015

Low Run#: 3

Manufacturer: RIELLO
Model No.: SSB 85
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	6.89			0.20	6.77			0.60
NOx Mid	14.56	14.55			0.03	14.25			1.03
NOx High	26.66	26.74			-0.27				
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			236	1.26
CO Mid	502.5			502	0.09			494	0.89
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	0.26			-0.87	0.77
NOx Low	6.95	6.86			0.30	6.75			0.67	-0.07
NOx Mid	14.56	14.53			0.10	14.21			1.17	-0.13
NOx High	26.66	26.68			-0.07					
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		5.01		-0.03		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	1.20			232	1.74	-0.48
CO Mid	502.5			495	0.74			487	1.54	-0.64
CO High	976			967	0.93					

Calibration Linearity

NOx Pretest	0.179
CO2 Pretest	0.033
CO Pretest	0.059

NOx Post Test	0.118
CO2 Post Test	0.086
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

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
0	0:00:00	72.2	93.2	91.1	0.0	0.00	0.0	Start Zero IN
15	0:00:15	72.5	93.4	91.4	0.0	0.00	0.0	
30	0:00:30	73.3	93.8	91.6	0.0	0.00	0.0	
45	0:00:45	72.6	94.0	92.0	0.0	0.00	0.0	
60	0:01:00	72.8	94.3	92.2	0.0	0.00	0.0	
75	0:01:15	72.7	94.6	92.5	0.0	0.00	0.0	
90	0:01:30	73.1	94.9	92.8	0.0	0.00	0.0	
105	0:01:45	73.6	95.2	93.1	0.0	0.00	0.0	
120	0:02:00	73.7	95.5	93.4	0.0	0.00	0.0	
135	0:02:15	73.4	95.7	93.8	0.0	0.00	0.0	
150	0:02:30	73.6	96.0	94.0	0.0	0.00	0.0	
165	0:02:45	73.7	96.3	94.3	0.0	0.00	0.0	
180	0:03:00	73.3	96.6	94.6	0.0	0.00	0.0	
195	0:03:15	73.5	96.9	94.9	0.0	0.00	0.0	
210	0:03:30	73.8	97.1	95.1	0.0	0.00	0.0	
225	0:03:45	73.0	97.3	95.4	0.0	0.00	0.0	
240	0:04:00	73.1	97.5	95.7	0.0	0.00	0.0	
255	0:04:15	73.0	97.7	95.9	0.0	0.00	0.0	
270	0:04:30	73.0	98.0	96.3	0.0	0.00	0.0	
285	0:04:45	72.9	98.2	96.4	0.0	0.00	0.0	
300	0:05:00	73.2	98.4	96.7	0.0	0.00	0.0	
315	0:05:15	73.3	98.7	97.0	0.0	0.00	0.0	
330	0:05:30	73.9	98.8	97.2	0.0	0.00	0.0	
345	0:05:45	73.3	99.0	97.4	0.0	0.00	0.0	Analyzer Zero IN
360	0:06:00	73.2	99.2	97.7	0.0	0.00	0.0	
375	0:06:15	72.9	99.4	97.9	0.0	0.00	0.0	
390	0:06:30	73.9	99.6	98.1	33.6	0.00	0.0	
405	0:06:45	74.0	99.8	98.3	780.4	6.42	0.0	
420	0:07:00	74.1	100.0	98.5	955.6	9.30	10.6	
435	0:07:15	74.3	100.2	98.7	967.9	9.44	21.3	
450	0:07:30	74.5	100.3	98.9	972.1	9.47	23.5	
465	0:07:45	74.4	100.5	99.1	973.7	9.48	25.0	
480	0:08:00	74.2	100.7	99.3	974.3	9.48	25.8	
495	0:08:15	74.3	100.8	99.5	974.3	9.49	26.1	
510	0:08:30	74.2	101.0	99.7	974.3	9.49	26.2	Start High Span IN
525	0:08:45	74.1	101.2	99.9	975.3	10.50	26.3	
540	0:09:00	73.9	101.4	100.1	1050.4	9.49	26.3	
555	0:09:15	73.7	101.6	100.2	975.3	9.49	26.4	
570	0:09:30	73.7	101.8	100.4	975.3	9.49	26.4	
585	0:09:45	73.7	102.0	100.6	975.3	9.49	26.7	
600	0:10:00	73.6	102.2	100.8	974.8	9.49	26.7	
615	0:10:15	74.0	102.4	101.0	975.3	9.49	26.7	
630	0:10:30	73.6	102.6	101.2	975.8	9.49	26.7	
645	0:10:45	73.8	102.8	101.4	975.3	9.49	26.8	
660	0:11:00	73.7	103.0	101.6	975.9	9.50	26.8	
675	0:11:15	72.8	103.1	101.7	975.8	9.49	26.8	
690	0:11:30	72.6	103.2	101.9	975.8	9.49	26.8	
705	0:11:45	73.3	103.5	102.2	975.6	9.49	26.8	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
720	0:12:00	73.4	103.8	102.3	975.3	9.50	26.7	
735	0:12:15	73.3	104.0	102.5	975.3	9.49	26.7	
750	0:12:30	72.6	104.2	102.7	975.3	9.50	26.7	
765	0:12:45	73.6	104.4	104.9	975.3	9.49	26.7	
780	0:13:00	73.5	104.6	117.4	975.3	9.49	26.7	
795	0:13:15	73.8	104.7	127.0	975.3	9.50	26.7	
810	0:13:30	73.7	104.8	131.0	975.3	9.50	26.8	
825	0:13:45	73.7	104.8	132.9	975.3	9.50	26.8	
840	0:14:00	73.7	105.0	134.3	975.3	9.50	26.7	Analyzer High Span IN
855	0:14:15	73.6	105.2	135.3	975.3	9.50	26.7	
870	0:14:30	74.2	105.3	135.7	973.7	9.50	26.7	
885	0:14:45	74.4	105.5	136.0	630.4	5.26	26.7	
900	0:15:00	74.3	105.7	136.1	513.3	5.02	24.8	
915	0:15:15	73.2	105.9	136.4	504.7	5.01	14.6	
930	0:15:30	73.5	106.2	136.4	502.6	5.01	14.6	
945	0:15:45	73.1	106.4	136.4	501.5	5.01	14.6	
960	0:16:00	73.1	106.9	136.5	501.5	5.01	14.6	
975	0:16:15	73.1	107.5	136.6	501.5	5.01	14.6	
990	0:16:30	73.9	108.2	136.8	501.6	5.01	14.6	
1005	0:16:45	73.0	109.1	136.9	502.0	5.01	14.6	
1020	0:17:00	73.0	109.9	136.8	501.5	5.01	14.6	Start Mid Span IN
1035	0:17:15	73.4	110.7	136.8	501.5	5.01	14.6	
1050	0:17:30	73.4	111.5	136.7	501.5	5.01	14.6	
1065	0:17:45	73.1	112.2	137.0	501.6	5.01	14.6	
1080	0:18:00	73.1	113.0	137.4	501.5	5.01	14.6	
1095	0:18:15	73.7	113.5	137.7	501.5	5.01	14.6	
1110	0:18:30	73.0	114.1	138.4	501.5	5.01	14.6	
1125	0:18:45	73.7	114.6	139.1	501.0	5.01	14.6	
1140	0:19:00	73.8	115.0	139.7	501.5	5.01	14.6	
1155	0:19:15	74.5	115.4	140.2	501.0	5.01	14.6	
1170	0:19:30	73.9	115.6	140.5	501.5	5.01	14.6	
1185	0:19:45	73.6	116.0	140.7	501.5	5.01	14.6	
1200	0:20:00	73.8	116.3	141.0	501.6	5.01	14.6	
1215	0:20:15	73.3	116.6	140.9	501.5	5.01	14.6	
1230	0:20:30	74.1	116.8	140.9	501.5	5.01	14.6	
1245	0:20:45	74.6	117.1	141.1	501.6	5.01	14.6	
1260	0:21:00	74.0	117.2	141.1	501.0	5.01	14.6	
1275	0:21:15	73.2	117.5	141.4	501.5	5.01	14.6	
1290	0:21:30	73.6	117.8	141.7	501.5	5.01	14.6	
1305	0:21:45	73.1	118.1	141.6	501.5	5.01	14.6	
1320	0:22:00	74.0	118.3	141.9	501.6	5.01	14.6	Analyzer Mid Span IN
1335	0:22:15	73.7	118.6	142.0	501.5	5.01	14.6	
1350	0:22:30	73.7	118.8	142.0	501.5	5.01	14.6	
1365	0:22:45	74.4	119.2	142.0	501.0	5.00	14.4	
1380	0:23:00	74.5	119.3	142.3	500.5	5.01	14.3	
1395	0:23:15	73.7	119.5	142.4	317.9	3.08	14.3	
1410	0:23:30	74.0	119.7	142.6	250.3	2.60	14.3	
1425	0:23:45	73.4	119.7	144.1	243.9	2.58	9.8	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
1440	0:24:00	74.0	119.9	145.8	242.3	2.57	5.5	
1455	0:24:15	73.9	120.0	146.5	241.8	2.57	6.3	
1470	0:24:30	74.2	120.1	146.9	241.8	2.57	6.5	
1485	0:24:45	74.0	120.2	147.3	241.3	2.57	6.8	
1500	0:25:00	74.0	120.4	147.4	241.2	2.57	6.8	Start Low Span IN
1515	0:25:15	74.3	120.6	147.5	241.2	2.57	6.9	
1530	0:25:30	74.0	120.9	147.4	241.2	2.57	6.9	
1545	0:25:45	74.3	121.2	147.6	241.8	2.57	6.9	
1560	0:26:00	74.8	121.4	147.6	241.8	2.57	6.9	
1575	0:26:15	74.3	121.5	147.5	241.3	2.57	6.9	
1590	0:26:30	74.3	121.8	147.5	241.3	2.57	6.9	
1605	0:26:45	74.5	122.0	147.7	241.3	2.57	6.9	
1620	0:27:00	74.4	122.2	148.0	241.8	2.57	6.9	
1635	0:27:15	74.8	122.4	148.2	241.8	2.57	6.9	
1650	0:27:30	73.9	122.6	148.3	241.3	2.57	6.9	
1665	0:27:45	73.4	122.7	148.3	241.3	2.57	6.9	
1680	0:28:00	74.0	122.9	148.8	241.8	2.57	6.9	
1695	0:28:15	73.8	123.2	149.1	241.2	2.57	6.9	
1710	0:28:30	73.9	123.4	149.3	241.3	2.57	6.9	
1725	0:28:45	74.3	123.6	149.5	241.3	2.57	6.9	
1740	0:29:00	74.6	123.7	149.6	241.3	2.57	6.9	
1755	0:29:15	74.8	123.8	149.8	241.3	2.57	6.9	
1770	0:29:30	74.6	124.0	150.0	241.3	2.57	6.9	
1785	0:29:45	74.6	124.1	150.2	241.3	2.57	6.9	
1800	0:30:00	74.5	124.3	150.3	241.3	2.57	6.9	Analyzer Low Span IN
1815	0:30:15	74.4	124.3	150.6	241.3	2.57	6.9	
1830	0:30:30	75.0	124.3	150.5	241.8	2.57	6.9	
1845	0:30:45	74.2	124.5	150.7	241.8	2.57	6.9	
1860	0:31:00	74.4	124.6	151.0	167.7	2.26	6.6	
1875	0:31:15	74.5	124.8	151.2	19.3	0.10	5.5	
1890	0:31:30	74.4	124.8	151.3	2.8	0.02	2.4	
1905	0:31:45	74.2	125.0	151.4	0.0	0.01	0.1	
1920	0:32:00	74.2	125.0	151.3	0.0	0.00	0.1	
1935	0:32:15	74.2	125.1	151.6	0.0	0.00	0.1	
1950	0:32:30	74.3	125.3	151.9	0.0	0.00	0.1	
1965	0:32:45	74.0	125.3	152.1	0.0	0.00	0.1	
1980	0:33:00	73.7	125.5	152.2	0.0	0.00	0.1	Start Zero Bias IN
1995	0:33:15	73.4	125.6	152.3	0.0	0.00	0.1	
2010	0:33:30	73.6	125.7	152.5	0.0	0.00	0.1	
2025	0:33:45	73.3	125.7	152.5	0.0	0.00	0.1	
2040	0:34:00	73.8	125.9	152.5	0.0	0.00	0.1	
2055	0:34:15	73.9	125.9	152.5	0.0	0.00	0.1	
2070	0:34:30	74.1	125.9	152.8	0.0	0.00	0.1	
2085	0:34:45	74.1	126.1	152.8	0.0	0.00	0.1	
2100	0:35:00	74.2	126.2	152.9	0.0	0.00	0.0	
2115	0:35:15	74.6	126.2	153.0	0.0	0.00	0.0	
2130	0:35:30	74.1	126.4	153.1	0.0	0.00	0.0	
2145	0:35:45	74.5	126.5	153.2	0.0	0.00	0.0	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2160	0:36:00	74.7	126.6	153.3	0.0	0.00	0.0	
2175	0:36:15	74.8	126.7	153.4	0.0	0.00	0.0	
2190	0:36:30	74.5	126.7	153.4	0.0	0.00	0.0	
2205	0:36:45	74.6	126.9	153.1	0.0	0.00	0.0	
2220	0:37:00	74.6	127.0	152.9	0.0	0.00	0.0	
2235	0:37:15	74.8	127.0	152.7	0.0	0.00	0.0	
2250	0:37:30	74.7	127.1	152.3	0.0	0.00	0.0	
2265	0:37:45	74.8	127.2	152.1	0.0	0.00	0.0	
2280	0:38:00	74.9	127.3	152.1	0.0	0.00	0.0	System Zero IN
2295	0:38:15	74.9	127.4	152.2	0.0	0.00	0.0	
2310	0:38:30	74.3	127.4	152.2	0.0	0.00	0.0	
2325	0:38:45	74.4	127.5	152.3	0.0	0.00	0.0	
2340	0:39:00	74.7	127.6	152.7	0.0	0.01	0.0	
2355	0:39:15	74.2	127.6	153.3	245.8	2.22	0.1	
2370	0:39:30	74.1	127.7	153.7	461.7	4.81	0.1	
2385	0:39:45	74.5	127.8	153.7	484.5	4.93	0.1	
2400	0:40:00	74.7	127.8	154.0	489.3	4.96	0.1	
2415	0:40:15	75.1	127.9	154.4	492.0	4.98	0.1	
2430	0:40:30	75.2	127.9	154.6	492.5	4.98	0.1	
2445	0:40:45	74.8	127.9	154.9	493.0	4.98	0.1	
2460	0:41:00	74.5	128.0	155.2	493.0	4.98	0.1	
2475	0:41:15	74.6	128.0	155.1	493.0	4.98	0.1	
2490	0:41:30	74.7	127.9	155.1	493.0	4.99	0.1	
2505	0:41:45	74.7	128.0	155.0	485.6	4.93	0.1	
2520	0:42:00	74.8	128.0	155.0	472.8	4.77	0.1	
2535	0:42:15	74.6	128.0	155.0	462.2	4.66	0.1	
2550	0:42:30	74.6	128.1	155.0	453.6	4.58	0.1	
2565	0:42:45	74.7	128.2	155.0	447.0	4.51	0.1	
2580	0:43:00	74.9	128.2	155.1	440.9	4.46	0.1	
2595	0:43:15	74.7	128.3	155.2	436.1	4.41	0.0	
2610	0:43:30	74.8	128.4	156.0	431.8	4.37	0.0	
2625	0:43:45	74.3	128.5	156.9	428.1	4.33	0.0	
2640	0:44:00	74.6	128.5	157.2	424.9	4.30	0.0	Start Mid CO/CO2 Bias IN
2655	0:44:15	74.7	128.7	157.4	449.7	4.44	0.0	
2670	0:44:30	74.6	128.7	157.5	484.0	4.93	0.0	
2685	0:44:45	74.8	128.9	157.7	490.4	4.98	0.0	
2700	0:45:00	74.9	128.9	157.9	492.5	4.99	0.0	
2715	0:45:15	75.1	129.1	158.1	493.0	4.99	0.0	
2730	0:45:30	75.1	129.1	158.7	493.6	5.00	0.0	
2745	0:45:45	74.8	129.2	159.2	493.6	5.00	0.0	
2760	0:46:00	74.6	129.2	159.4	493.6	5.00	0.0	
2775	0:46:15	74.5	129.3	159.6	493.6	5.00	0.0	
2790	0:46:30	75.2	129.4	160.0	493.6	5.00	0.0	
2805	0:46:45	74.6	129.4	160.1	493.6	5.00	0.0	
2820	0:47:00	74.8	129.6	160.3	493.6	5.00	0.0	
2835	0:47:15	74.4	129.7	160.4	493.0	5.00	0.0	
2850	0:47:30	74.5	129.7	160.5	493.6	5.00	0.0	
2865	0:47:45	74.9	129.9	160.5	493.6	5.00	0.0	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
2880	0:48:00	75.1	130.0	160.6	493.6	5.00	0.0	
2895	0:48:15	75.4	130.1	160.7	493.6	5.00	0.0	
2910	0:48:30	75.8	130.2	160.9	493.6	5.00	0.0	
2925	0:48:45	76.0	130.3	161.1	493.6	5.00	0.0	
2940	0:49:00	75.7	130.4	161.4	493.6	5.00	0.0	System Mid CO/CO2 IN
2955	0:49:15	75.5	130.6	161.7	493.6	5.00	0.0	
2970	0:49:30	75.6	130.7	162.0	493.6	5.00	0.0	
2985	0:49:45	75.3	130.8	162.6	342.5	4.41	0.0	
3000	0:50:00	75.6	131.0	163.0	91.9	0.40	0.0	
3015	0:50:15	75.5	131.1	163.3	215.2	2.47	0.0	
3030	0:50:30	75.8	131.2	163.5	232.2	2.56	0.0	
3045	0:50:45	76.1	131.3	163.6	235.9	2.57	0.0	
3060	0:51:00	75.9	131.4	164.0	236.5	2.57	0.0	
3075	0:51:15	75.8	131.4	164.1	237.0	2.57	0.0	
3090	0:51:30	75.3	131.5	164.3	237.0	2.57	0.0	
3105	0:51:45	75.5	131.6	164.5	237.0	2.57	0.0	
3120	0:52:00	75.3	131.6	164.8	237.0	2.57	0.0	Start Low CO/CO2 Bias IN
3135	0:52:15	75.2	131.8	165.3	237.0	2.57	0.0	
3150	0:52:30	75.3	131.8	165.5	237.0	2.57	0.0	
3165	0:52:45	75.4	131.9	165.7	237.0	2.57	0.0	
3180	0:53:00	74.9	132.1	166.0	237.0	2.57	0.0	
3195	0:53:15	75.2	132.2	166.1	237.0	2.57	0.0	
3210	0:53:30	75.1	132.3	166.0	237.0	2.57	0.0	
3225	0:53:45	75.2	132.4	166.1	237.0	2.57	0.0	
3240	0:54:00	75.3	132.6	166.2	237.0	2.57	0.0	
3255	0:54:15	75.7	132.7	166.3	237.0	2.57	0.0	
3270	0:54:30	75.5	132.8	166.5	237.0	2.57	0.0	
3285	0:54:45	75.4	133.0	166.7	237.0	2.57	0.0	
3300	0:55:00	75.2	133.1	166.9	236.5	2.57	0.0	
3315	0:55:15	74.9	133.2	167.0	236.5	2.57	0.0	
3330	0:55:30	75.4	133.4	167.2	236.5	2.57	0.0	
3345	0:55:45	75.3	133.5	167.5	236.5	2.57	0.0	
3360	0:56:00	75.6	133.6	166.3	236.5	2.57	0.0	
3375	0:56:15	75.2	133.8	164.8	236.5	2.57	0.0	
3390	0:56:30	75.1	133.9	164.3	236.5	2.57	0.0	
3405	0:56:45	74.9	134.1	164.6	236.5	2.57	0.0	
3420	0:57:00	75.4	134.2	164.8	236.5	2.57	0.0	System Low CO/CO2 IN
3435	0:57:15	75.9	134.6	165.0	236.5	2.57	0.0	
3450	0:57:30	75.8	135.3	164.7	236.5	2.57	0.0	
3465	0:57:45	75.7	135.7	164.4	168.6	2.32	0.0	
3480	0:58:00	75.6	136.2	165.0	19.8	0.16	0.0	
3495	0:58:15	76.1	136.3	165.7	1.2	0.03	0.0	
3510	0:58:30	76.1	136.6	166.1	0.0	0.01	8.5	
3525	0:58:45	76.1	136.8	166.0	0.0	0.00	13.8	
3540	0:59:00	75.9	136.9	166.0	0.0	0.00	14.1	
3555	0:59:15	75.6	136.9	166.2	0.0	0.00	14.1	
3570	0:59:30	75.9	136.9	165.9	0.0	0.00	14.2	
3585	0:59:45	76.2	137.0	165.2	0.0	0.00	14.2	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
3600	1:00:00	76.1	137.0	165.3	0.0	0.00	14.2	Start Mid NOx Bias IN
3615	1:00:15	75.9	137.0	165.9	0.0	0.00	14.2	
3630	1:00:30	75.4	136.9	166.3	0.0	0.00	14.2	
3645	1:00:45	75.3	137.0	166.6	0.0	0.00	14.2	
3660	1:01:00	75.1	137.1	166.8	0.0	0.00	14.2	
3675	1:01:15	74.8	137.3	166.7	0.0	0.01	14.2	
3690	1:01:30	75.1	137.3	166.3	0.0	0.01	14.2	
3705	1:01:45	75.5	137.5	165.9	0.0	0.01	14.2	
3720	1:02:00	75.3	137.6	166.0	0.0	0.01	14.2	
3735	1:02:15	75.5	137.7	166.8	0.0	0.01	14.2	
3750	1:02:30	75.7	137.7	167.3	0.0	0.01	14.2	
3765	1:02:45	75.7	137.7	167.7	0.0	0.01	14.3	
3780	1:03:00	75.4	137.7	167.6	0.0	0.01	14.3	
3795	1:03:15	75.3	137.9	167.5	0.0	0.01	14.2	
3810	1:03:30	75.1	137.9	167.9	0.0	0.01	14.2	
3825	1:03:45	75.0	138.0	168.3	0.0	0.01	14.2	
3840	1:04:00	75.2	138.0	168.5	0.0	0.01	14.2	
3855	1:04:15	75.3	138.1	168.3	0.0	0.01	14.2	
3870	1:04:30	75.6	138.1	168.3	0.0	0.01	14.2	
3885	1:04:45	75.6	138.1	168.4	0.0	0.02	14.3	
3900	1:05:00	75.3	138.2	168.5	0.0	0.02	14.3	System Mid NOx IN
3915	1:05:15	75.5	138.2	168.7	0.0	0.02	14.2	
3930	1:05:30	75.9	138.2	168.6	0.0	0.02	14.3	
3945	1:05:45	75.9	138.3	168.6	0.0	0.02	14.3	
3960	1:06:00	75.7	138.4	168.4	0.0	0.02	14.2	
3975	1:06:15	75.7	138.4	168.3	0.0	0.02	14.3	
3990	1:06:30	76.3	138.5	168.5	0.0	0.02	5.0	
4005	1:06:45	76.0	138.5	169.1	0.0	0.02	1.1	
4020	1:07:00	75.6	138.6	169.7	0.0	0.02	2.9	
4035	1:07:15	76.1	138.7	170.0	0.0	0.02	6.3	
4050	1:07:30	76.3	138.8	170.2	0.0	0.02	6.6	Start Low NOx Bias IN
4065	1:07:45	75.8	138.8	170.4	0.0	0.03	6.7	
4080	1:08:00	75.9	138.8	170.6	0.0	0.03	6.7	
4095	1:08:15	76.1	138.9	170.8	0.0	0.03	6.7	
4110	1:08:30	75.2	139.0	170.8	0.0	0.03	6.8	
4125	1:08:45	75.9	139.0	171.0	0.0	0.03	6.8	
4140	1:09:00	76.0	139.0	170.9	0.0	0.03	6.8	
4155	1:09:15	75.9	139.0	170.5	0.0	0.03	6.8	
4170	1:09:30	75.9	139.0	170.1	0.0	0.03	6.8	
4185	1:09:45	76.5	139.1	169.7	0.0	0.03	6.8	
4200	1:10:00	76.3	139.1	169.8	0.0	0.03	6.8	
4215	1:10:15	75.9	139.2	169.9	0.0	0.03	6.8	
4230	1:10:30	76.0	139.3	170.3	0.0	0.04	6.8	
4245	1:10:45	75.5	139.4	170.6	0.0	0.04	6.8	
4260	1:11:00	76.2	139.5	170.5	0.0	0.04	6.8	
4275	1:11:15	76.6	139.6	170.6	0.0	0.04	6.8	
4290	1:11:30	75.9	139.7	170.6	0.0	0.04	6.8	
4305	1:11:45	76.2	139.8	170.7	0.0	0.04	6.8	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
4320	1:12:00	76.5	139.8	170.7	0.0	0.04	6.8	
4335	1:12:15	76.8	139.9	170.9	0.0	0.04	6.8	
4350	1:12:30	76.7	139.9	171.0	0.0	0.04	6.8	
4365	1:12:45	77.0	140.0	171.2	0.0	0.04	6.8	
4380	1:13:00	77.3	140.0	171.4	0.0	0.04	6.8	System Low NOx IN
4395	1:13:15	77.0	140.0	171.4	0.0	0.04	6.8	
4410	1:13:30	77.5	139.9	171.4	0.0	0.05	6.8	
4425	1:13:45	77.4	140.0	171.2	0.0	0.05	6.7	
4440	1:14:00	77.1	140.1	171.0	0.0	0.05	6.6	
4455	1:14:15	76.5	140.1	171.1	0.0	0.02	6.5	
4470	1:14:30	76.9	140.1	171.0	0.7	0.91	6.6	
4485	1:14:45	76.7	140.1	171.0	0.0	7.64	5.6	
4500	1:15:00	76.8	140.1	171.0	0.0	7.91	4.4	
4515	1:15:15	76.5	140.2	171.1	0.0	7.98	5.4	
4530	1:15:30	76.2	140.2	171.2	0.0	7.99	5.5	
4545	1:15:45	76.1	140.2	171.2	0.0	8.01	5.5	
4560	1:16:00	76.1	140.3	171.3	0.0	8.02	5.6	
4575	1:16:15	76.1	140.3	171.3	0.0	8.02	5.6	
4590	1:16:30	76.3	140.5	171.4	0.0	8.02	5.7	
4605	1:16:45	77.1	140.5	171.5	0.0	8.03	5.7	
4620	1:17:00	76.7	140.6	171.6	0.0	8.04	5.7	
4635	1:17:15	77.0	140.6	171.6	0.0	8.04	5.8	
4650	1:17:30	76.6	140.7	171.7	0.0	8.03	5.8	
4665	1:17:45	76.2	140.6	171.8	0.0	8.05	5.9	
4680	1:18:00	76.8	140.7	172.0	0.0	8.06	6.0	
4695	1:18:15	76.2	140.7	172.1	0.0	8.04	6.1	
4710	1:18:30	77.1	140.7	172.3	0.0	8.03	6.0	
4725	1:18:45	76.5	140.8	172.7	0.0	8.07	6.1	
4740	1:19:00	77.1	140.8	173.2	0.0	8.08	6.2	
4755	1:19:15	76.9	140.8	173.1	0.0	8.07	6.3	
4770	1:19:30	76.8	140.9	172.9	0.0	8.04	6.2	
4785	1:19:45	76.2	141.0	173.0	0.0	8.04	6.1	
4800	1:20:00	76.0	141.1	173.1	0.0	8.04	6.1	
4815	1:20:15	75.8	141.2	173.3	0.0	8.08	6.1	
4830	1:20:30	76.7	141.2	173.2	0.0	8.06	6.3	
4845	1:20:45	76.4	141.3	173.2	0.0	8.06	6.3	
4860	1:21:00	76.0	141.3	173.4	0.0	8.06	6.3	
4875	1:21:15	75.9	141.5	173.6	0.0	8.06	6.3	
4890	1:21:30	76.1	141.6	173.9	0.0	8.08	6.3	
4905	1:21:45	76.2	141.6	174.4	0.0	8.10	6.4	
4920	1:22:00	75.9	141.7	174.9	0.0	8.12	6.6	
4935	1:22:15	76.4	141.7	175.2	0.0	8.15	6.7	
4950	1:22:30	76.2	141.8	175.1	0.0	8.15	6.8	
4965	1:22:45	76.4	141.9	175.0	0.0	8.12	6.8	
4980	1:23:00	76.2	142.0	174.8	0.0	8.11	6.7	
4995	1:23:15	75.6	142.1	174.9	0.0	8.11	6.6	
5010	1:23:30	76.0	142.2	175.0	0.0	8.11	6.6	
5025	1:23:45	76.4	142.3	174.9	0.0	8.11	6.6	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5040	1:24:00	76.0	142.4	174.5	0.0	8.08	6.7
5055	1:24:15	76.0	142.4	174.4	0.0	8.08	6.5
5070	1:24:30	76.3	142.5	174.5	0.0	8.09	6.5
5085	1:24:45	76.1	142.5	174.7	0.0	8.09	6.5
5100	1:25:00	75.9	142.7	174.8	0.0	8.09	6.5
5115	1:25:15	75.9	142.8	175.0	0.0	8.09	6.5
5130	1:25:30	75.9	143.0	175.1	0.0	8.09	6.5
5145	1:25:45	75.6	143.2	175.3	0.0	8.10	6.5
5160	1:26:00	76.1	143.3	176.0	0.0	8.10	6.5
5175	1:26:15	76.2	143.4	176.7	0.0	8.08	6.5
5190	1:26:30	76.3	143.5	177.1	0.0	8.08	6.5
5205	1:26:45	76.0	143.5	177.4	0.0	8.07	6.5
5220	1:27:00	76.1	143.6	177.4	0.0	8.08	6.5
5235	1:27:15	75.8	143.5	177.2	0.0	8.10	6.5
5250	1:27:30	75.7	143.4	177.2	0.0	8.09	6.5
5265	1:27:45	76.1	143.3	177.4	0.0	8.10	6.5
5280	1:28:00	75.9	143.1	177.3	0.0	8.09	6.5
5295	1:28:15	76.0	143.1	177.4	0.0	8.08	6.5
5310	1:28:30	76.0	143.2	177.6	0.0	8.08	6.5
5325	1:28:45	76.1	143.2	177.8	0.0	8.08	6.5
5340	1:29:00	76.3	143.3	177.9	0.0	8.11	6.5
5355	1:29:15	76.2	143.3	177.8	0.0	8.09	6.6
5370	1:29:30	76.3	143.5	177.8	0.0	8.08	6.5
5385	1:29:45	76.2	143.6	177.8	0.0	8.08	6.5
5400	1:30:00	76.4	143.7	177.8	0.0	8.08	6.5
5415	1:30:15	76.0	143.7	178.0	0.0	8.11	6.5
5430	1:30:30	76.2	143.8	178.3	0.0	8.13	6.6
5445	1:30:45	76.1	143.9	178.6	0.0	8.14	6.8
5460	1:31:00	76.2	143.9	178.7	0.0	8.14	6.8
5475	1:31:15	75.9	143.9	178.8	0.0	8.14	6.8
5490	1:31:30	75.7	144.0	178.9	0.0	8.14	6.8
5505	1:31:45	75.9	144.1	178.9	0.0	8.14	6.8
5520	1:32:00	75.9	144.1	178.9	0.0	8.12	6.7
5535	1:32:15	76.2	144.2	178.9	0.0	8.11	6.6
5550	1:32:30	76.3	144.3	179.0	0.0	8.11	6.6
5565	1:32:45	76.2	144.3	179.3	0.0	8.13	6.6
5580	1:33:00	76.1	144.3	179.5	0.0	8.14	6.6
5595	1:33:15	76.3	144.4	179.6	0.0	8.14	6.8
5610	1:33:30	76.3	144.4	179.5	0.0	8.15	6.8
5625	1:33:45	76.3	144.4	179.3	0.0	8.11	6.7
5640	1:34:00	76.4	144.5	179.1	0.0	8.11	6.7
5655	1:34:15	76.6	144.6	179.1	0.0	8.11	6.6
5670	1:34:30	76.6	144.7	179.2	0.0	8.12	6.6
5685	1:34:45	76.3	144.7	179.0	0.0	8.12	6.6
5700	1:35:00	76.1	144.7	178.8	0.0	8.11	6.6
5715	1:35:15	76.2	144.7	178.8	0.0	8.11	6.6
5730	1:35:30	76.4	144.8	178.8	0.0	8.11	6.6
5745	1:35:45	76.2	144.9	179.0	0.0	8.12	6.6

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
5760	1:36:00	76.1	145.0	179.1	0.0	8.11	6.6
5775	1:36:15	76.1	145.0	179.2	0.0	8.11	6.6
5790	1:36:30	76.2	145.1	179.3	0.0	8.13	6.6
5805	1:36:45	76.3	145.2	179.5	0.0	8.14	6.7
5820	1:37:00	75.9	145.3	179.4	0.0	8.12	6.7
5835	1:37:15	76.2	145.5	179.5	0.0	8.13	6.6
5850	1:37:30	76.3	145.6	179.5	0.0	8.12	6.7
5865	1:37:45	76.4	145.6	179.4	0.0	8.11	6.7
5880	1:38:00	76.2	145.6	179.6	0.0	8.12	6.6
5895	1:38:15	76.4	145.6	179.8	0.0	8.12	6.7
5910	1:38:30	76.2	145.6	180.3	0.0	8.15	6.7
5925	1:38:45	76.3	145.6	180.9	0.0	8.20	6.9
5940	1:39:00	76.6	145.5	181.0	0.0	8.21	7.2
5955	1:39:15	76.3	145.6	180.7	0.0	8.17	7.2
5970	1:39:30	76.4	145.7	180.3	0.0	8.13	7.0
5985	1:39:45	76.3	145.7	180.3	0.0	8.12	6.7
6000	1:40:00	76.7	145.8	180.2	0.0	8.14	6.7
6015	1:40:15	76.6	145.7	180.3	0.0	8.12	6.8
6030	1:40:30	76.6	145.8	180.2	0.0	8.12	6.7
6045	1:40:45	76.6	145.8	180.2	0.0	8.14	6.7
6060	1:41:00	76.7	145.8	180.2	0.0	8.13	6.7
6075	1:41:15	76.7	145.9	179.6	0.0	8.11	6.7
6090	1:41:30	76.5	146.0	178.1	0.0	8.05	6.6
6105	1:41:45	76.8	146.1	177.7	0.0	8.02	6.4
6120	1:42:00	76.5	146.2	177.3	0.0	8.02	6.2
6135	1:42:15	76.7	146.3	177.3	0.0	8.02	6.2
6150	1:42:30	76.8	146.4	177.3	0.0	8.03	6.2
6165	1:42:45	76.8	146.6	177.4	0.0	8.04	6.2
6180	1:43:00	76.8	146.8	177.4	0.0	8.03	6.2
6195	1:43:15	76.8	147.1	177.3	0.0	8.00	6.1
6210	1:43:30	76.4	147.2	177.4	0.0	7.99	6.1
6225	1:43:45	76.3	147.4	178.1	0.0	8.03	6.0
6240	1:44:00	76.5	147.5	178.9	0.0	8.11	6.0
6255	1:44:15	76.4	147.6	179.2	0.0	8.12	6.6
6270	1:44:30	76.1	147.5	179.5	0.0	8.11	6.6
6285	1:44:45	76.3	147.5	179.3	0.0	8.13	6.6
6300	1:45:00	76.1	147.4	178.8	0.0	8.04	6.6
6315	1:45:15	76.3	147.4	178.5	0.0	8.01	6.1
6330	1:45:30	76.5	147.3	178.5	0.0	7.98	6.0
6345	1:45:45	76.3	147.2	178.5	0.0	8.00	6.0
6360	1:46:00	76.1	147.2	178.7	0.0	7.98	5.9
6375	1:46:15	76.1	147.1	179.2	0.0	8.04	5.9
6390	1:46:30	76.0	147.1	179.7	0.0	8.08	6.2
6405	1:46:45	76.2	147.1	179.9	0.0	8.09	6.4
6420	1:47:00	76.3	147.2	180.0	0.0	8.10	6.4
6435	1:47:15	76.8	147.2	179.8	0.0	8.11	6.4
6450	1:47:30	76.2	147.2	179.3	0.0	8.04	6.5
6465	1:47:45	76.3	147.3	178.9	0.0	8.03	6.3

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
6480	1:48:00	76.3	147.3	178.7	0.0	8.00	6.1
6495	1:48:15	76.4	147.4	178.6	0.0	8.01	5.9
6510	1:48:30	76.6	147.5	178.5	0.0	7.98	6.0
6525	1:48:45	76.2	147.5	179.0	0.0	8.00	6.0
6540	1:49:00	75.9	147.5	179.9	0.0	8.11	6.0
6555	1:49:15	76.0	147.7	180.1	0.0	8.12	6.6
6570	1:49:30	76.4	147.7	179.1	0.0	8.06	6.6
6585	1:49:45	76.5	147.8	178.0	0.0	7.90	6.1
6600	1:50:00	76.5	147.8	177.4	0.0	7.86	5.5
6615	1:50:15	76.2	147.9	177.1	0.0	7.86	5.3
6630	1:50:30	76.4	147.9	177.0	0.0	7.85	5.3
6645	1:50:45	76.6	147.8	177.0	0.0	7.85	5.3
6660	1:51:00	76.5	147.9	177.8	0.0	7.90	5.3
6675	1:51:15	76.4	147.9	178.5	0.0	7.97	5.5
6690	1:51:30	76.5	147.8	178.2	0.0	7.96	5.7
6705	1:51:45	76.4	147.8	178.0	0.0	7.88	5.7
6720	1:52:00	76.4	147.7	177.7	0.0	7.88	5.5
6735	1:52:15	76.3	147.8	177.5	0.0	7.87	5.4
6750	1:52:30	76.3	147.7	177.4	0.0	7.85	5.3
6765	1:52:45	76.5	147.7	177.3	0.0	7.85	5.3
6780	1:53:00	76.6	147.6	177.3	0.0	7.84	5.2
6795	1:53:15	76.8	147.5	177.3	0.0	7.85	5.2
6810	1:53:30	76.6	147.4	177.3	0.0	7.84	5.2
6825	1:53:45	76.3	147.3	177.0	0.0	7.83	5.2
6840	1:54:00	76.2	147.4	177.1	0.0	7.84	5.2
6855	1:54:15	76.3	147.3	177.1	0.0	7.87	5.1
6870	1:54:30	76.5	147.3	177.1	0.0	7.86	5.3
6885	1:54:45	76.7	147.2	177.0	0.0	7.84	5.3
6900	1:55:00	76.9	147.2	177.0	0.0	7.82	5.1
6915	1:55:15	76.6	147.2	176.8	0.0	7.84	5.1
6930	1:55:30	76.8	147.1	176.7	0.0	7.84	5.1
6945	1:55:45	77.0	147.1	176.7	0.0	7.84	5.1
6960	1:56:00	76.5	147.1	176.7	0.0	7.85	5.1
6975	1:56:15	76.6	147.1	177.1	0.0	7.86	5.2
6990	1:56:30	76.7	147.0	177.6	0.0	7.84	5.2
7005	1:56:45	76.9	147.0	177.6	0.0	7.84	5.2
7020	1:57:00	76.8	146.9	177.6	0.0	7.82	5.1
7035	1:57:15	77.2	146.8	177.7	0.0	7.82	5.1
7050	1:57:30	76.7	146.8	177.9	0.0	7.93	5.1
7065	1:57:45	76.7	146.9	177.7	0.0	7.88	5.3
7080	1:58:00	76.5	147.0	177.9	0.0	7.91	5.5
7095	1:58:15	76.3	147.0	178.3	0.0	7.94	5.4
7110	1:58:30	76.4	147.0	179.2	0.0	8.02	5.5
7125	1:58:45	76.5	147.0	179.6	0.0	8.06	5.8
7140	1:59:00	76.4	147.0	180.0	0.0	8.08	6.2
7155	1:59:15	76.4	147.0	180.2	0.0	8.08	6.2
7170	1:59:30	76.4	147.0	180.4	0.0	8.07	6.2
7185	1:59:45	76.2	147.0	180.5	0.0	8.07	6.2

Comments

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
7200	2:00:00	76.6	147.0	180.6	0.0	8.08	6.2	
7215	2:00:15	76.7	147.1	180.7	0.0	8.08	6.3	
7230	2:00:30	76.8	147.0	180.7	0.0	8.08	6.3	
7245	2:00:45	76.9	147.1	180.6	0.0	8.09	6.3	
7260	2:01:00	77.0	147.1	180.3	0.0	8.05	6.3	
7275	2:01:15	76.9	147.2	179.9	0.0	8.01	6.1	
7290	2:01:30	76.8	147.3	179.7	0.0	7.99	6.0	
7305	2:01:45	76.7	147.3	179.6	0.0	7.99	5.8	
7320	2:02:00	76.8	147.4	179.5	0.0	7.99	5.8	
7335	2:02:15	76.6	147.5	179.5	0.0	7.99	5.8	
7350	2:02:30	76.4	147.6	179.5	0.0	8.00	5.9	
7365	2:02:45	76.3	147.8	179.6	0.0	8.01	5.9	
7380	2:03:00	76.1	147.9	179.7	0.0	8.00	5.9	
7395	2:03:15	76.5	148.0	179.7	0.0	7.99	5.9	
7410	2:03:30	76.8	148.1	179.8	0.0	7.99	5.9	
7425	2:03:45	76.7	148.1	179.9	0.0	7.99	5.9	
7440	2:04:00	76.9	148.1	180.0	0.0	7.98	5.9	Start Low Fire Equilibrium - #3
7455	2:04:15	77.2	148.2	180.1	0.0	7.99	5.8	
7470	2:04:30	77.1	148.2	180.3	0.0	7.99	5.9	
7485	2:04:45	76.8	148.2	180.0	0.0	8.00	5.9	
7500	2:05:00	76.4	148.2	179.6	0.0	8.04	5.9	
7515	2:05:15	76.7	148.1	179.1	0.0	8.02	5.8	
7530	2:05:30	76.7	148.1	179.1	0.0	8.00	5.8	
7545	2:05:45	76.8	148.2	179.4	0.0	8.05	5.8	
7560	2:06:00	77.0	148.2	179.5	0.0	8.06	5.8	
7575	2:06:15	77.0	148.2	179.6	0.0	8.06	6.0	
7590	2:06:30	76.6	148.2	179.6	0.0	8.06	6.0	
7605	2:06:45	76.7	148.3	179.5	0.0	8.05	5.9	
7620	2:07:00	76.7	148.3	179.5	0.0	8.04	5.9	
7635	2:07:15	76.7	148.2	179.5	0.0	8.05	5.9	
7650	2:07:30	76.9	148.2	179.5	0.0	8.05	5.9	
7665	2:07:45	76.9	148.2	179.6	0.0	8.04	5.9	
7680	2:08:00	76.9	148.2	179.7	0.0	8.05	5.9	
7695	2:08:15	76.9	148.2	179.8	0.0	8.05	5.9	
7710	2:08:30	76.7	148.1	179.8	0.0	8.06	5.9	
7725	2:08:45	76.8	148.2	179.9	0.0	8.04	5.9	
7740	2:09:00	76.6	148.2	179.7	0.0	8.04	5.9	End Low Fire Equilibrium - #3
7755	2:09:15	77.0	148.2	179.7	0.0	8.04	5.9	
7770	2:09:30	76.6	148.1	179.8	0.0	8.04	6.0	
7785	2:09:45	76.8	148.1	179.7	0.0	8.04	6.0	
7800	2:10:00	76.8	148.1	179.8	0.0	8.04	5.9	Start Test - Low Fire - #3
7815	2:10:15	76.6	148.1	179.8	0.0	8.03	5.9	
7830	2:10:30	76.6	148.1	179.8	0.0	8.03	5.9	
7845	2:10:45	76.8	148.2	179.8	0.0	8.03	5.9	
7860	2:11:00	76.9	148.2	179.8	0.0	8.03	5.9	
7875	2:11:15	76.7	148.2	179.7	0.0	8.04	5.9	
7890	2:11:30	76.7	148.2	179.8	0.0	8.03	5.9	
7905	2:11:45	76.7	148.2	179.9	0.0	8.04	5.9	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
7920	2:12:00	76.7	148.2	179.7	0.0	8.03	5.9
7935	2:12:15	76.8	148.2	179.8	0.0	8.03	5.9
7950	2:12:30	77.0	148.2	179.9	0.0	8.04	5.9
7965	2:12:45	76.9	148.3	179.8	0.0	8.02	5.9
7980	2:13:00	77.1	148.2	179.8	0.0	8.01	5.9
7995	2:13:15	77.0	148.2	179.9	0.0	8.03	5.8
8010	2:13:30	77.1	148.3	179.8	0.0	8.02	5.9
8025	2:13:45	77.3	148.3	179.9	0.0	8.01	5.9
8040	2:14:00	77.1	148.4	180.1	0.0	8.04	5.8
8055	2:14:15	77.2	148.4	180.3	0.0	8.05	5.9
8070	2:14:30	77.5	148.3	180.4	0.0	8.05	5.9
8085	2:14:45	77.3	148.3	180.4	0.0	8.04	5.9
8100	2:15:00	77.2	148.4	180.4	0.0	8.04	5.9
8115	2:15:15	77.6	148.4	180.4	0.0	8.04	5.9
8130	2:15:30	77.7	148.4	180.3	0.0	8.05	5.9
8145	2:15:45	77.2	148.3	180.3	0.0	8.05	5.9
8160	2:16:00	77.1	148.3	180.3	0.0	8.06	6.0
8175	2:16:15	77.2	148.3	180.3	0.0	8.07	6.0
8190	2:16:30	76.8	148.3	180.6	0.0	8.07	6.0
8205	2:16:45	77.0	148.4	180.7	0.0	8.08	6.1
8220	2:17:00	76.9	148.3	180.5	0.0	8.06	6.1
8235	2:17:15	76.8	148.4	180.3	0.0	8.05	6.0
8250	2:17:30	76.6	148.4	180.2	0.0	8.05	6.0
8265	2:17:45	76.3	148.5	180.3	0.0	8.05	5.9
8280	2:18:00	76.7	148.6	180.4	0.0	8.04	6.0
8295	2:18:15	76.6	148.6	180.4	0.0	8.03	6.0
8310	2:18:30	77.0	148.7	180.4	0.0	8.03	5.9
8325	2:18:45	76.9	148.7	180.5	0.0	8.03	5.9
8340	2:19:00	76.7	148.7	180.4	0.0	8.03	5.9
8355	2:19:15	76.7	148.8	180.5	0.0	8.04	5.9
8370	2:19:30	76.6	148.8	180.4	0.0	8.04	5.9
8385	2:19:45	76.7	148.9	180.5	0.0	8.04	5.8
8400	2:20:00	76.7	148.8	180.5	0.0	8.04	5.8
8415	2:20:15	76.4	148.8	180.6	0.0	8.03	5.9
8430	2:20:30	76.4	148.9	180.8	0.0	8.03	5.9
8445	2:20:45	76.6	148.9	180.9	0.0	8.03	5.9
8460	2:21:00	76.5	148.9	180.9	0.0	8.04	5.9
8475	2:21:15	77.0	148.9	180.9	0.0	8.03	5.9
8490	2:21:30	76.8	148.9	180.8	0.0	8.02	5.9
8505	2:21:45	76.8	148.9	180.9	0.0	8.01	5.8
8520	2:22:00	77.0	149.0	181.0	0.0	8.02	5.8
8535	2:22:15	77.1	149.0	181.1	0.0	8.03	5.8
8550	2:22:30	77.2	149.0	181.0	0.0	8.04	5.9
8565	2:22:45	77.0	149.0	181.3	0.0	8.05	5.9
8580	2:23:00	77.1	149.1	181.5	0.0	8.07	5.9
8595	2:23:15	77.3	149.2	181.6	0.0	8.07	6.1
8610	2:23:30	77.3	149.2	181.5	0.0	8.05	6.1
8625	2:23:45	77.1	149.3	181.5	0.0	8.04	6.0

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
8640	2:24:00	77.1	149.2	181.7	0.0	8.06	5.9
8655	2:24:15	77.3	149.3	181.5	0.0	8.07	6.1
8670	2:24:30	77.1	149.3	180.8	0.0	8.07	6.1
8685	2:24:45	77.1	149.3	180.5	0.0	8.07	6.1
8700	2:25:00	77.1	149.3	180.6	0.0	8.08	6.1
8715	2:25:15	77.1	149.4	180.6	0.0	8.08	6.1
8730	2:25:30	76.9	149.4	180.7	0.0	8.09	6.1
8745	2:25:45	77.2	149.4	180.9	0.0	8.09	6.1
8760	2:26:00	77.4	149.2	180.9	0.0	8.08	6.1
8775	2:26:15	77.3	149.1	180.8	0.0	8.08	6.1
8790	2:26:30	77.2	149.1	180.8	0.0	8.08	6.1
8805	2:26:45	77.1	149.1	180.9	0.0	8.10	6.1
8820	2:27:00	77.1	149.0	180.9	0.0	8.10	6.1
8835	2:27:15	77.5	148.9	180.9	0.0	8.08	6.2
8850	2:27:30	77.5	148.9	180.8	0.0	8.07	6.2
8865	2:27:45	77.3	148.9	180.7	0.0	8.08	6.1
8880	2:28:00	77.4	148.8	180.4	0.0	8.05	6.1
8895	2:28:15	77.3	148.7	180.3	0.0	8.05	6.0
8910	2:28:30	77.2	148.7	180.1	0.0	8.03	6.0
8925	2:28:45	77.2	148.7	180.1	0.0	8.02	5.9
8940	2:29:00	77.6	148.7	179.9	0.0	8.02	5.8
8955	2:29:15	77.6	148.7	179.8	0.0	8.05	5.8
8970	2:29:30	77.3	148.6	179.7	0.0	8.04	5.9
8985	2:29:45	77.5	148.7	179.6	0.0	8.03	5.9
9000	2:30:00	77.4	148.7	179.6	0.0	8.03	5.9
9015	2:30:15	77.2	148.6	179.5	0.0	8.02	5.9
9030	2:30:30	76.8	148.7	179.4	0.0	8.03	5.9
9045	2:30:45	77.1	148.7	179.4	0.0	8.04	5.8
9060	2:31:00	77.2	148.6	179.4	0.0	8.04	5.8
9075	2:31:15	77.2	148.7	179.5	0.0	8.02	5.9
9090	2:31:30	77.3	148.7	179.7	0.0	8.03	5.8
9105	2:31:45	77.3	148.7	179.6	0.0	8.03	5.8
9120	2:32:00	77.6	148.7	179.7	0.0	8.02	5.8
9135	2:32:15	77.5	148.7	179.7	0.0	8.03	5.8
9150	2:32:30	77.5	148.8	179.8	0.0	8.02	5.8
9165	2:32:45	77.7	148.8	179.8	0.0	8.03	5.8
9180	2:33:00	77.7	148.9	180.0	0.0	8.03	5.9
9195	2:33:15	77.5	148.8	180.1	0.0	8.02	5.8
9210	2:33:30	77.5	148.7	180.4	0.0	8.04	5.8
9225	2:33:45	77.5	148.7	180.4	0.0	8.05	5.9
9240	2:34:00	77.5	148.6	180.4	0.0	8.05	5.9
9255	2:34:15	77.7	148.6	180.4	0.0	8.04	5.9
9270	2:34:30	77.2	148.6	180.5	0.0	8.04	5.9
9285	2:34:45	77.5	148.7	180.4	0.0	8.03	5.9
9300	2:35:00	77.7	148.7	180.5	0.0	8.04	5.8
9315	2:35:15	77.6	148.7	180.4	0.0	8.04	5.9
9330	2:35:30	77.3	148.8	180.5	0.0	8.04	5.9
9345	2:35:45	77.2	148.8	180.5	0.0	8.04	5.9

Comments

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
9360	2:36:00	77.4	148.9	180.8	0.0	8.05	5.8	
9375	2:36:15	77.3	149.0	181.1	0.0	8.09	5.9	
9390	2:36:30	77.6	149.0	181.2	0.0	8.08	6.0	
9405	2:36:45	77.8	149.2	181.3	0.0	8.07	6.1	
9420	2:37:00	77.6	149.2	181.0	0.0	8.07	6.1	Start Emissions
9435	2:37:15	77.4	149.3	180.3	0.0	8.03	6.1	
9450	2:37:30	77.4	149.2	180.1	0.0	8.04	5.9	
9465	2:37:45	77.3	149.3	180.1	0.0	8.04	5.9	
9480	2:38:00	77.1	149.3	180.2	0.0	8.04	5.9	1st Minute
9495	2:38:15	77.5	149.4	180.2	0.0	8.04	5.8	
9510	2:38:30	77.6	149.3	180.1	0.0	8.05	5.9	
9525	2:38:45	77.6	149.1	180.0	0.0	8.01	5.8	
9540	2:39:00	77.5	149.1	180.0	0.0	7.99	5.8	2nd Minute
9555	2:39:15	77.5	149.1	179.9	0.0	7.99	5.7	
9570	2:39:30	77.4	149.0	179.9	0.0	7.98	5.7	
9585	2:39:45	77.4	148.9	180.2	0.0	8.00	5.7	
9600	2:40:00	77.5	148.9	180.3	0.0	8.02	5.7	3rd Minute / EOT - Low Fire - #3
9615	2:40:15	77.8	149.0	180.3	0.0	8.03	5.8	
9630	2:40:30	77.7	149.0	180.3	0.0	8.03	5.8	CO2 (Avg) % =
9645	2:40:45	77.7	149.0	180.4	0.0	8.05	5.8	8.02
9660	2:41:00	77.4	149.0	180.4	0.0	8.04	5.9	NOx (Avg) ppm =
9675	2:41:15	77.5	148.9	180.6	0.0	8.05	5.8	5.8
9690	2:41:30	77.3	148.9	180.7	0.0	8.07	5.9	CO (Max) ppm =
9705	2:41:45	77.6	148.9	180.9	0.0	8.07	6.0	0.0
9720	2:42:00	78.0	148.8	181.0	0.0	8.07	6.0	Ambient (Avg) F =
9735	2:42:15	77.9	148.7	180.8	0.0	8.06	6.0	77.2
9750	2:42:30	77.5	148.7	180.3	0.0	8.04	6.0	T_In (Avg) F =
9765	2:42:45	77.6	148.7	180.2	0.0	8.04	5.9	148.7
9780	2:43:00	78.1	148.7	180.1	0.0	8.03	5.8	T_Del (Avg) F =
9795	2:43:15	78.5	148.8	180.2	0.0	8.02	5.8	180.4
9810	2:43:30	78.3	148.7	180.3	0.0	8.03	5.8	
9825	2:43:45	78.1	148.8	180.5	0.0	8.07	5.9	
9840	2:44:00	77.7	148.8	180.5	0.0	8.08	6.0	
9855	2:44:15	77.6	148.8	180.2	0.0	8.05	6.1	
9870	2:44:30	77.7	148.8	180.0	0.0	8.03	6.0	
9885	2:44:45	77.6	148.8	180.0	0.0	8.02	5.8	
9900	2:45:00	77.3	148.8	180.0	0.0	8.04	5.8	
9915	2:45:15	77.3	148.9	180.0	0.0	8.05	5.9	
9930	2:45:30	77.2	148.8	180.1	0.0	8.03	5.9	
9945	2:45:45	77.3	148.9	180.1	0.0	8.03	5.9	
9960	2:46:00	77.2	148.8	180.1	0.0	8.02	5.9	
9975	2:46:15	77.4	148.8	180.2	0.0	8.03	5.8	
9990	2:46:30	77.7	148.8	180.1	0.0	8.02	5.8	
10005	2:46:45	77.7	148.8	180.3	0.0	8.02	5.8	
10020	2:47:00	77.9	148.9	180.6	0.0	8.05	5.8	
10035	2:47:15	77.9	148.9	180.8	0.0	8.07	5.9	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time		Ambient	Inlet	Outlet	CO	CO2	NOx	Comments
(sec)	(hh:mm:ss)	(F)	(F)	(F)	(ppm)	(%)	(ppm)	
10050	2:47:30	78.0	148.9	180.8	0.0	8.05	6.0	Start Zero OUT
10065	2:47:45	77.9	148.8	180.6	0.0	8.04	5.9	
10080	2:48:00	77.8	148.8	180.4	0.0	8.03	5.8	
10095	2:48:15	78.0	148.8	180.3	0.0	8.03	5.8	
10110	2:48:30	77.8	148.7	176.6	16.6	7.78	5.8	
10125	2:48:45	78.1	148.8	167.3	5.4	1.03	4.6	
10140	2:49:00	78.6	148.7	160.1	0.0	0.09	3.3	
10155	2:49:15	78.5	148.7	155.6	0.0	0.02	0.8	
10170	2:49:30	78.3	148.7	153.2	0.0	0.01	0.4	
10185	2:49:45	78.1	148.6	152.1	0.0	0.00	0.1	
10200	2:50:00	78.2	149.1	150.7	0.0	0.00	0.0	
10215	2:50:15	78.9	149.2	149.9	0.0	0.00	0.0	
10230	2:50:30	79.1	147.5	149.8	0.0	0.00	0.0	
10245	2:50:45	79.1	139.4	149.9	0.0	0.00	0.0	
10260	2:51:00	79.0	134.4	149.8	0.0	0.00	0.0	
10275	2:51:15	78.7	132.0	145.7	0.0	0.00	0.0	
10290	2:51:30	78.5	130.6	140.0	0.0	0.00	0.0	
10305	2:51:45	78.1	129.8	136.0	0.0	0.00	0.0	
10320	2:52:00	78.1	129.4	133.6	0.0	0.00	0.0	
10335	2:52:15	78.2	129.0	132.2	0.0	0.00	0.0	
10350	2:52:30	78.2	128.8	131.4	0.0	0.00	0.0	
10365	2:52:45	78.1	128.6	130.7	0.0	0.00	0.0	
10380	2:53:00	78.1	128.6	130.3	0.0	0.00	0.0	
10395	2:53:15	78.2	128.5	130.0	0.0	0.00	0.0	
10410	2:53:30	78.5	128.4	129.8	0.0	0.00	0.0	
10425	2:53:45	78.8	128.2	129.6	0.0	0.00	0.0	
10440	2:54:00	79.0	128.2	129.5	0.0	0.00	0.0	
10455	2:54:15	78.9	128.1	129.3	0.0	0.00	0.0	
10470	2:54:30	78.6	128.1	129.2	0.0	0.00	0.0	
10485	2:54:45	78.4	127.9	129.1	0.0	0.00	0.0	
10500	2:55:00	78.2	127.9	129.0	0.0	0.00	0.0	
10515	2:55:15	78.1	127.8	128.9	0.0	0.00	0.0	
10530	2:55:30	78.3	127.6	128.8	0.0	0.00	0.0	
10545	2:55:45	78.3	127.3	128.7	0.0	0.00	0.0	
10560	2:56:00	78.2	127.0	128.5	0.0	0.00	0.0	
10575	2:56:15	78.6	126.6	128.3	0.0	0.00	0.0	
10590	2:56:30	78.6	126.2	128.0	0.0	0.00	0.0	
10605	2:56:45	78.9	125.9	127.8	0.0	0.00	0.0	
10620	2:57:00	78.9	125.4	127.4	0.0	0.00	0.0	
10635	2:57:15	78.4	124.8	127.0	0.0	0.00	0.0	
10650	2:57:30	78.7	124.4	126.6	0.0	0.00	0.0	
10665	2:57:45	78.2	123.9	126.1	230.1	0.54	0.0	
10680	2:58:00	79.2	123.3	125.7	867.7	9.09	0.6	
10695	2:58:15	79.4	122.8	125.2	952.3	9.42	24.0	
10710	2:58:30	79.4	122.2	124.7	961.1	9.48	25.1	
10725	2:58:45	79.5	121.7	124.2	964.1	9.49	26.4	
10740	2:59:00	79.2	121.1	123.7	965.2	9.49	26.4	
10755	2:59:15	79.0	120.4	123.1	965.7	9.50	26.5	
								Start High Span OUT

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
10770	2:59:30	78.7	119.6	122.4	965.7	9.50	26.5	
10785	2:59:45	79.1	119.0	121.9	966.2	9.50	26.6	
10800	3:00:00	78.8	118.4	121.2	966.2	9.50	26.6	
10815	3:00:15	78.7	117.7	120.5	966.2	9.50	26.6	
10830	3:00:30	78.4	116.9	119.9	966.2	9.50	26.6	
10845	3:00:45	78.4	116.2	119.2	966.7	9.50	26.6	
10860	3:01:00	78.4	115.5	118.5	966.7	9.50	26.6	
10875	3:01:15	78.4	114.8	117.9	966.7	9.50	26.6	
10890	3:01:30	78.4	114.0	117.1	966.7	9.50	26.6	
10905	3:01:45	78.4	113.3	116.4	966.7	9.50	26.7	
10920	3:02:00	78.6	112.6	115.7	966.7	9.50	26.7	
10935	3:02:15	78.5	111.9	115.0	966.7	9.50	26.7	
10950	3:02:30	78.6	111.1	114.3	966.7	9.50	26.7	
10965	3:02:45	78.6	110.4	113.6	966.7	9.50	26.7	
10980	3:03:00	78.9	109.9	112.9	966.7	9.51	26.7	
10995	3:03:15	78.7	109.2	112.1	966.7	9.51	26.7	
11010	3:03:30	78.7	108.7	111.4	966.7	9.50	26.7	
11025	3:03:45	78.9	108.1	110.8	966.7	9.51	26.7	
11040	3:04:00	79.1	107.6	110.2	966.7	9.51	26.7	Analyzer High Span OUT
11055	3:04:15	78.9	106.8	109.6	966.7	9.51	26.7	
11070	3:04:30	79.2	106.2	109.1	965.4	9.51	26.6	
11085	3:04:45	79.3	105.5	108.5	620.6	6.06	26.6	
11100	3:05:00	79.4	105.0	107.8	508.4	5.09	26.6	
11115	3:05:15	79.1	104.5	107.1	499.2	5.02	14.7	
11130	3:05:30	78.9	103.9	106.5	496.2	5.01	14.7	
11145	3:05:45	78.8	103.3	106.0	495.6	5.01	14.6	
11160	3:06:00	78.5	102.8	105.5	495.6	5.01	14.6	
11175	3:06:15	78.4	102.3	104.8	495.7	5.01	14.6	
11190	3:06:30	78.8	101.7	104.3	495.6	5.01	14.5	
11205	3:06:45	78.7	101.2	103.8	495.6	5.01	14.5	
11220	3:07:00	78.7	100.7	103.2	495.6	5.01	14.6	Start Mid Span OUT
11235	3:07:15	78.8	100.1	102.7	495.6	5.01	14.5	
11250	3:07:30	78.7	99.6	102.1	495.6	5.01	14.5	
11265	3:07:45	78.6	99.0	101.6	495.6	5.01	14.5	
11280	3:08:00	78.5	98.5	101.0	495.6	5.01	14.5	
11295	3:08:15	78.3	98.0	100.5	495.6	5.01	14.5	
11310	3:08:30	78.5	97.5	100.0	495.6	5.01	14.5	
11325	3:08:45	78.6	97.0	99.4	495.6	5.01	14.5	
11340	3:09:00	79.1	96.6	99.0	495.1	5.01	14.5	
11355	3:09:15	79.2	96.2	98.6	495.1	5.01	14.5	
11370	3:09:30	79.2	95.7	98.0	495.1	5.01	14.5	
11385	3:09:45	78.9	95.3	97.5	495.1	5.01	14.5	
11400	3:10:00	78.8	94.8	97.0	495.1	5.01	14.5	
11415	3:10:15	78.5	94.4	96.6	495.1	5.01	14.5	
11430	3:10:30	78.4	93.9	96.1	495.1	5.01	14.5	
11445	3:10:45	78.4	93.5	95.7	495.1	5.01	14.5	
11460	3:11:00	78.4	93.1	95.2	495.1	5.01	14.5	
11475	3:11:15	78.8	92.6	94.8	495.1	5.01	14.5	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
11490	3:11:30	78.8	92.1	94.4	495.1	5.01	14.5	
11505	3:11:45	78.9	91.7	93.9	495.1	5.01	14.5	
11520	3:12:00	79.0	91.3	93.4	495.1	5.01	14.5	Analyzer Mid Span OUT
11535	3:12:15	78.9	90.8	93.0	495.1	5.01	14.5	
11550	3:12:30	79.0	90.5	92.6	495.1	5.01	14.5	
11565	3:12:45	79.2	90.1	92.2	495.1	5.01	14.4	
11580	3:13:00	79.2	89.7	91.7	417.1	4.82	14.2	
11595	3:13:15	79.1	89.3	91.4	256.3	2.66	14.8	
11610	3:13:30	79.0	89.0	91.0	241.2	2.59	10.5	
11625	3:13:45	78.9	88.7	90.7	238.0	2.58	6.9	
11640	3:14:00	79.0	88.3	90.2	237.5	2.58	6.9	
11655	3:14:15	78.8	87.9	89.8	237.0	2.58	6.9	
11670	3:14:30	78.6	87.6	89.5	237.0	2.58	6.9	
11685	3:14:45	78.5	87.3	89.1	237.0	2.57	6.9	
11700	3:15:00	78.4	86.9	88.7	237.0	2.58	6.9	Start Low Span OUT
11715	3:15:15	78.5	86.6	88.4	237.0	2.58	6.9	
11730	3:15:30	78.9	86.3	88.1	237.0	2.57	6.9	
11745	3:15:45	79.0	86.0	87.8	237.0	2.57	6.9	
11760	3:16:00	78.9	85.7	87.5	237.0	2.57	6.9	
11775	3:16:15	78.6	85.4	87.2	236.4	2.57	6.9	
11790	3:16:30	78.4	85.0	86.8	236.4	2.57	6.9	
11805	3:16:45	78.5	84.8	86.6	237.0	2.57	6.9	
11820	3:17:00	78.3	84.4	86.1	237.0	2.57	6.9	
11835	3:17:15	78.3	84.2	85.9	237.0	2.57	6.9	
11850	3:17:30	78.2	83.9	85.6	236.4	2.57	6.9	
11865	3:17:45	78.3	83.6	85.3	236.4	2.57	6.9	
11880	3:18:00	78.5	83.4	85.0	237.0	2.57	6.9	
11895	3:18:15	78.3	83.2	84.8	237.0	2.57	6.9	
11910	3:18:30	78.7	82.9	84.5	237.0	2.57	6.9	
11925	3:18:45	79.1	82.6	84.2	237.0	2.57	6.9	
11940	3:19:00	79.0	82.4	83.9	237.0	2.57	6.9	
11955	3:19:15	78.9	82.4	83.9	237.0	2.57	6.9	
11970	3:19:30	78.7	82.3	84.0	237.0	2.57	6.9	
11985	3:19:45	78.8	82.3	83.9	237.0	2.57	6.9	
12000	3:20:00	78.4	82.3	84.1	237.0	2.57	6.9	Analyzer Low Span OUT
12015	3:20:15	78.0	82.3	84.0	236.4	2.57	6.9	
12030	3:20:30	78.2	82.2	84.0	236.4	2.57	6.9	
12045	3:20:45	78.6	82.2	84.1	236.4	2.57	6.9	
12060	3:21:00	79.1	82.2	84.1	236.4	2.57	6.9	
12075	3:21:15	79.5	82.2	84.1	79.6	1.08	6.9	
12090	3:21:30	79.0	82.2	84.0	2.2	0.06	4.2	
12105	3:21:45	78.9	82.2	84.0	0.0	0.01	1.0	
12120	3:22:00	78.5	82.2	84.0	0.0	0.00	0.6	
12135	3:22:15	78.5	82.2	83.9	0.0	0.00	0.6	
12150	3:22:30	78.6	82.2	83.9	0.0	0.00	0.6	
12165	3:22:45	78.6	82.2	83.9	0.0	0.00	0.6	
12180	3:23:00	78.5	82.2	83.9	0.0	0.00	0.6	Start Zero Bias OUT
12195	3:23:15	78.4	82.1	83.8	0.0	0.00	0.5	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12210	3:23:30	78.3	82.2	83.7	0.0	0.00	0.5	
12225	3:23:45	78.1	82.1	83.7	0.0	0.00	0.5	
12240	3:24:00	78.1	82.2	83.6	0.0	0.00	0.5	
12255	3:24:15	77.9	82.2	83.5	0.0	0.00	0.5	
12270	3:24:30	78.0	82.2	83.6	0.0	0.00	0.5	
12285	3:24:45	78.1	82.2	83.5	0.0	0.00	0.4	
12300	3:25:00	78.2	82.1	83.4	0.0	0.00	0.4	
12315	3:25:15	78.2	82.0	83.3	0.0	0.00	0.4	
12330	3:25:30	78.8	82.0	83.3	0.0	0.00	0.4	
12345	3:25:45	79.0	82.1	83.3	0.0	0.00	0.4	
12360	3:26:00	78.8	82.0	83.3	0.0	0.00	0.4	
12375	3:26:15	78.2	82.0	83.3	0.0	0.00	0.3	
12390	3:26:30	78.1	82.0	83.2	0.0	0.00	0.3	
12405	3:26:45	78.3	81.9	83.1	0.0	0.00	0.3	
12420	3:27:00	78.3	81.9	83.1	0.0	0.00	0.3	
12435	3:27:15	78.7	82.0	83.1	0.0	0.00	0.3	
12450	3:27:30	79.0	81.9	83.1	0.0	0.00	0.3	
12465	3:27:45	79.2	81.8	83.1	0.0	0.00	0.3	
12480	3:28:00	79.6	81.8	83.0	0.0	0.00	0.3	System Zero OUT
12495	3:28:15	79.4	81.7	83.0	0.0	0.00	0.2	
12510	3:28:30	79.6	81.7	82.9	0.0	0.00	0.2	
12525	3:28:45	79.3	81.7	82.9	0.0	0.00	0.2	
12540	3:29:00	79.2	81.7	82.9	0.0	0.02	0.2	
12555	3:29:15	79.3	81.6	82.8	308.1	3.24	0.2	
12570	3:29:30	79.5	81.6	82.8	464.3	4.83	0.2	
12585	3:29:45	79.3	81.6	82.8	479.7	4.94	0.2	
12600	3:30:00	79.4	81.6	82.8	484.0	4.97	0.2	
12615	3:30:15	79.0	81.5	82.7	485.5	4.98	0.2	
12630	3:30:30	78.8	81.5	82.7	486.1	4.98	0.2	
12645	3:30:45	78.8	81.6	82.7	486.1	4.98	0.2	
12660	3:31:00	78.7	81.4	82.6	486.6	4.99	0.2	Start Mid CO/CO2 Bias OUT
12675	3:31:15	78.7	81.5	82.6	486.6	4.99	0.2	
12690	3:31:30	78.9	81.5	82.6	486.6	4.99	0.2	
12705	3:31:45	79.2	81.4	82.6	486.6	4.99	0.2	
12720	3:32:00	79.6	81.4	82.5	487.1	4.99	0.2	
12735	3:32:15	79.5	81.4	82.5	486.6	4.99	0.2	
12750	3:32:30	79.2	81.3	82.5	487.1	4.99	0.2	
12765	3:32:45	79.1	81.3	82.5	487.1	4.99	0.1	
12780	3:33:00	79.3	81.3	82.4	487.1	4.99	0.1	
12795	3:33:15	79.4	81.3	82.4	487.1	4.99	0.1	
12810	3:33:30	79.3	81.3	82.5	487.1	4.99	0.1	
12825	3:33:45	79.6	81.3	82.5	487.1	4.99	0.1	
12840	3:34:00	79.4	81.3	82.4	487.1	4.99	0.1	
12855	3:34:15	79.5	81.3	82.4	487.1	4.99	0.1	
12870	3:34:30	79.4	81.3	82.3	487.1	4.99	0.1	
12885	3:34:45	78.8	81.2	82.3	487.1	4.99	0.1	
12900	3:35:00	78.8	81.2	82.3	487.1	4.99	0.1	
12915	3:35:15	78.8	81.2	82.3	487.1	4.99	0.1	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
12930	3:35:30	78.6	81.1	82.3	486.6	4.99	0.1	
12945	3:35:45	78.6	81.1	82.1	486.6	4.99	0.1	
12960	3:36:00	78.7	81.1	82.2	487.1	4.99	0.1	System Mid CO/CO2 OUT
12975	3:36:15	78.8	81.0	82.1	487.1	4.99	0.1	
12990	3:36:30	79.3	81.1	82.1	487.1	5.00	0.1	
13005	3:36:45	78.9	81.0	82.1	487.1	4.99	0.1	
13020	3:37:00	79.2	81.0	82.1	487.1	4.99	0.1	
13035	3:37:15	79.0	81.0	82.0	339.4	4.49	0.1	
13050	3:37:30	79.1	81.0	82.0	172.5	1.50	0.1	
13065	3:37:45	79.2	81.0	82.0	222.6	2.53	0.1	
13080	3:38:00	79.1	81.0	82.0	229.5	2.57	0.1	
13095	3:38:15	78.7	80.9	82.0	231.1	2.58	0.1	
13110	3:38:30	78.6	81.0	82.0	231.6	2.58	0.1	
13125	3:38:45	78.7	80.9	82.0	232.2	2.58	0.1	
13140	3:39:00	79.0	80.8	81.9	232.2	2.57	0.1	Start Low CO/CO2 Bias OUT
13155	3:39:15	78.8	80.9	82.0	232.2	2.57	0.1	
13170	3:39:30	79.0	80.9	81.9	232.2	2.57	0.1	
13185	3:39:45	79.5	80.8	81.8	232.2	2.57	0.1	
13200	3:40:00	79.7	80.9	81.8	232.2	2.57	0.1	
13215	3:40:15	79.6	80.8	81.9	232.2	2.57	0.1	
13230	3:40:30	79.5	80.8	81.8	231.6	2.57	0.1	
13245	3:40:45	79.3	80.8	81.7	231.6	2.57	0.1	
13260	3:41:00	79.6	80.7	81.7	231.6	2.57	0.1	
13275	3:41:15	79.5	80.7	81.7	231.6	2.57	0.1	
13290	3:41:30	79.2	80.7	81.7	231.6	2.57	0.1	
13305	3:41:45	79.7	80.7	81.7	231.6	2.57	0.1	
13320	3:42:00	79.7	80.7	81.7	231.6	2.57	0.1	
13335	3:42:15	79.2	80.7	81.7	231.1	2.57	0.1	
13350	3:42:30	79.2	80.6	81.6	231.6	2.57	0.1	
13365	3:42:45	79.0	80.7	81.7	231.6	2.57	0.1	
13380	3:43:00	78.8	80.7	81.6	231.6	2.57	0.0	
13395	3:43:15	78.8	80.7	81.6	231.6	2.57	0.0	
13410	3:43:30	78.7	80.6	81.5	231.6	2.57	0.0	
13425	3:43:45	79.3	80.6	81.5	231.6	2.57	0.0	
13440	3:44:00	79.7	80.6	81.5	231.6	2.57	0.0	System Low CO/CO2 OUT
13455	3:44:15	79.2	80.6	81.5	231.6	2.57	0.0	
13470	3:44:30	79.1	80.6	81.4	231.6	2.57	0.0	
13485	3:44:45	79.0	80.5	81.4	231.6	2.57	0.0	
13500	3:45:00	79.2	80.5	81.4	231.6	2.57	0.0	
13515	3:45:15	79.3	80.5	81.4	231.6	2.57	0.0	
13530	3:45:30	79.4	80.5	81.4	231.6	2.57	0.0	
13545	3:45:45	79.0	80.5	81.3	231.6	2.57	0.0	
13560	3:46:00	79.4	80.6	81.3	231.6	2.57	0.0	
13575	3:46:15	79.4	80.6	81.4	231.6	2.57	0.0	
13590	3:46:30	79.7	80.6	81.4	231.6	2.57	0.0	
13605	3:46:45	79.5	80.6	81.3	231.1	2.57	0.0	
13620	3:47:00	79.1	80.5	81.3	212.5	2.57	0.0	Start Mid NOx Bias OUT
13635	3:47:15	79.2	80.5	81.3	33.6	0.35	0.0	

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)	Comments
13650	3:47:30	79.4	80.5	81.3	0.0	0.05	3.1	
13665	3:47:45	79.2	80.5	81.2	0.0	0.02	10.0	
13680	3:48:00	79.2	80.5	81.2	0.0	0.01	14.0	
13695	3:48:15	78.9	80.5	81.3	0.0	0.01	14.1	
13710	3:48:30	78.8	80.4	81.2	0.0	0.01	14.1	
13725	3:48:45	78.8	80.5	81.1	0.0	0.01	14.2	
13740	3:49:00	79.5	80.4	81.1	0.0	0.01	14.2	
13755	3:49:15	79.7	80.3	81.1	0.0	0.01	14.2	
13770	3:49:30	79.8	80.4	81.1	0.0	0.01	14.2	
13785	3:49:45	80.1	80.3	81.1	0.0	0.02	14.2	
13800	3:50:00	79.7	80.3	81.0	0.0	0.02	14.2	
13815	3:50:15	79.4	80.3	81.1	0.0	0.02	14.2	
13830	3:50:30	79.5	80.3	81.0	0.0	0.02	14.2	
13845	3:50:45	79.9	80.4	81.0	0.0	0.02	14.2	
13860	3:51:00	79.9	80.3	81.0	0.0	0.02	14.2	
13875	3:51:15	79.9	80.2	80.9	0.0	0.02	14.2	
13890	3:51:30	79.9	80.3	81.0	0.0	0.02	14.2	
13905	3:51:45	79.5	80.2	80.9	0.0	0.02	14.2	
13920	3:52:00	79.0	80.2	80.9	0.0	0.02	14.2	System Mid NOx OUT
13935	3:52:15	79.1	80.2	80.9	0.0	0.02	14.2	
13950	3:52:30	79.2	80.3	80.9	0.0	0.03	14.2	
13965	3:52:45	79.7	80.2	80.8	0.0	0.03	14.2	
13980	3:53:00	79.8	80.2	80.9	0.0	0.03	14.2	
13995	3:53:15	79.8	80.2	80.8	0.0	0.03	14.2	
14010	3:53:30	80.2	80.2	80.9	0.0	0.03	14.2	
14025	3:53:45	80.6	80.1	80.8	0.0	0.03	8.0	
14040	3:54:00	80.5	80.1	80.8	0.0	0.03	1.7	
14055	3:54:15	80.4	80.1	80.8	0.0	0.03	6.0	
14070	3:54:30	79.8	80.1	80.7	0.0	0.03	6.4	
14085	3:54:45	79.7	80.0	80.7	0.0	0.04	6.8	
14100	3:55:00	80.0	80.0	80.7	0.0	0.04	6.8	Start Low NOx Bias OUT
14115	3:55:15	79.9	80.0	80.8	0.0	0.04	6.8	
14130	3:55:30	79.4	80.0	80.7	0.0	0.04	6.8	
14145	3:55:45	79.4	80.1	80.8	0.0	0.04	6.7	
14160	3:56:00	79.6	79.9	80.7	0.0	0.04	6.7	
14175	3:56:15	80.1	80.0	80.7	0.0	0.04	6.7	
14190	3:56:30	80.2	80.0	80.7	0.0	0.04	6.7	
14205	3:56:45	80.5	79.9	80.6	0.0	0.05	6.8	
14220	3:57:00	80.5	80.0	80.6	0.0	0.05	6.8	
14235	3:57:15	80.3	79.9	80.6	0.0	0.05	6.7	
14250	3:57:30	80.0	80.0	80.6	0.0	0.05	6.8	
14265	3:57:45	79.5	80.0	80.6	0.0	0.06	6.8	
14280	3:58:00	79.5	79.9	80.6	0.0	0.06	6.7	
14295	3:58:15	79.3	79.9	80.6	0.0	0.06	6.8	
14310	3:58:30	79.3	79.9	80.6	0.0	0.06	6.8	
14325	3:58:45	79.9	79.9	80.6	0.0	0.06	6.8	
14340	3:59:00	80.3	79.9	80.5	0.0	0.06	6.8	
14355	3:59:15	80.0	79.9	80.6	0.0	0.06	6.8	

Manufacturer: RIELLO

Date: July 13, 2015

Model No.: SSB 85

Elapsed Time (sec) (hh:mm:ss)		Ambient (F)	Inlet (F)	Outlet (F)	CO (ppm)	CO2 (%)	NOx (ppm)
14370	3:59:30	79.8	79.9	80.5	0.0	0.06	6.8
14385	3:59:45	80.0	79.9	80.5	0.0	0.06	6.8
14400	4:00:00	79.6	79.9	80.5	0.0	0.07	6.8
14415	4:00:15	79.6	79.9	80.4	0.0	0.07	6.8
14430	4:00:30	79.8	79.8	80.4	0.0	0.07	6.8
14445	4:00:45	79.9	79.8	80.5	0.0	0.07	6.7
Average =		76.8					

Comments

System Low NOx OUT

INTENTIONALLY LEFT BLANK