



CERTIFICATE OF CALIBRATION

Niagara Falls, NY Phone: (716) 285-0418 Fax: (716) 282-2937
 Hamilton, Ontario Phone: (905) 545-2003 Fax: (905) 545-4248

CERTIFICATE #

JD8104

CUSTOMER	Trancert Marketing	DEPT.	DATE OF TEST	11/12/08
----------	--------------------	-------	--------------	----------

INSTRUMENT INFORMATION

MODEL	7465PK	SERIAL #	8104	TAG
-------	--------	----------	------	-----

DESCRIPTION

CALIBRATION INFORMATION

RANGE	GAS MEAS.		ZERO GAS	MID GAS	SPAN GAS
0-25.0%	O2	CAL GAS	0.0	10.45	20.9
		READING	0.0	10.5	20.9
0-20.0%	CO2	CAL GAS	0.0	10	20
		READING	0.0	9.8	20.0
0-10.0%	CO	CAL GAS	0.0	5	10
		READING	0.0	4.95	10.00
0-2000PPM	HC'S	CAL GAS	0	1510	
		READING	0	1510	
0-2000	NOX	CAL GAS	0	483	
		READING	0	483	
		CAL GAS			
		READING			

TECHNICIAN	JOHN	NEXT DUE DATE	May 2, 2009
------------	------	---------------	-------------

REMARKS

DISCLAIMER

Nova Analytical Systems Inc., certifies that the equipment noted hereon has been compared to the standards listed above in accordance with the referenced procedure or specification, and has been found to be within tolerance unless noted in the "remarks" above. The standards used to establish the basis for this calibration are certified as being traceable to the Nation Institute of Standards and Technology, derived from accepted values of natural constants or derived by the ratio type of self calibration techniques. The calibration systems used are in compliance with QSO-9000 and ISO-9000 series. This certificate may not be reproduced except in full, without written approval of Nova Analytical Systems Inc. Nova Analytical Systems uses certified calibration gases from Praxair, Air Liquide and Matheson. Midpoint calibration gases are created using full scale span gases with a precision blender with +/-1% accuracy.


AUTHORIZED BY

DATE

Nov 12/08

QA INSP

Exhaust Gas Analyzer Test Report

	A	B	C	D	E	F	G	H
1	Date#1:	Sep 30 2008	Date#2:	Jan 20 2009	Date#3:		Date#4:	
2	Vehicle ID#:	151		151	Technician:	Dave/Jeff/Karl		
3	Company Name:	Southern Rail			Technician:	Ed		
5	RUN #: 80809-151	Date:	O2	CO	CO2	HC	NOx	
6	IDLE	Sep 30 2008	19.8	0	0.8	3.0	198.00	
7	RPM- 3n	Sep 30 2008	19.7	0.01	0.7	4.0	184.00	
8	RPM- 6n	Sep 30 2008	19.3	0.01	1.3	6.0	141.00	
9	AVG	Sep 30 2008	19.6	0.007	0.933	4.3	174.33	
10								
11	RUN #: 80809-151	Date:	O2	CO	CO2	HC	NOx	
12	IDLE	Sep 30 2008	19.8	0.01	0.8	4.0	190.00	
13	RPM	Sep 30 2008	19.5	0.02	1.1	7.0	166.00	
14	RPM	Sep 30 2008	19.1	0.02	1.4	9.0	135.00	
15	AVG	Sep 30 2008	19.47	0.02	1.10	6.67	163.67	
16								
17	AVG RUN #: B-		19.53	0.01	1.02	5.50	169.00	
18								
19	RUN #: A0920-151	Date:	O2	CO	CO2	HC	NOx	
20	IDLE	Jan 20 2009	19.8	0	0.8	4.0	158	
21	RPM	Jan 20 2009	19.6	0	0.9	3.0	145	
22	RPM	Jan 20 2009	19.2	0.01	1.3	5.0	130	
23	AVG	Jan 20 2009	19.53	0.00	1.00	4.00	144.33	
24								
25	RUN #: A0920-151	Date:	O2	CO	CO2	HC	NOx	
26	IDLE	Jan 20 2009	19.8	0.01	0.7	4.0	154	
27	RPM	Jan 20 2009	19.5	0.01	0.9	5.0	142	
28	RPM	Jan 20 2009	19.2	0.01	1.2	6.0	124	
29	AVG	Jan 20 2009	19.50	0.01	0.93	5.00	140.00	
30								
31	AVG RUN		19.52	0.01	0.97	4.50	142.17	
32								
33	DELTA		-0.1%	-42.9%	-4.9%	-18.2%	-15.9%	
34								
35								
36								
37								
38	Signatures				Date	JAN 24/2009		



Exhaust Gas Analyzer Test Report

	A	B	C	D	E	F	G	H
1	Date#1:	21-Oct-08	Date#2:	19-Dec-08	Date#3:		Technician:	Dave/Nick
2	Vehicle ID#:	152	IC In Date:		Weather:	Sunny/Sunny	Technician:	Bob
3	Company Name:	Southern Rail	IC Type:	Custom	Temp:	10c/-3c	Technician:	
5	RUN #: B0810-152	Date:	O2	CO	CO2	HC	NOx	
6	IDLE	21-Oct-08	19.90	0.03	0.70	6.00	45.00	
7	RPM- 3n	21-Oct-08	19.70	0.03	0.80	5.00	43.00	
8	RPM- 6n	21-Oct-08	19.30	0.03	1.20	6.00	42.00	
9	AVG	21-Oct-08	19.63	0.03	0.90	5.67	43.33	
10								
11	RUN #: B0810-152	Date:	O2	CO	CO2	HC	NOx	
12	IDLE	21-Oct-08	20.00	0.03	0.60	5.00	42.00	
13	RPM-3n	21-Oct-08	19.80	0.03	0.60	5.00	40.00	
14	RPM-6n	21-Oct-08	19.40	0.03	1.20	6.00	41.00	
15	AVG	21-Oct-08	19.73	0.03	0.80	5.33	41.00	
16								
17	AVG RUN		19.68	0.03	0.85	5.50	42.17	
18								
19	RUN #: A0812-152	Date:	O2	CO	CO2	HC	NOx	
20	IDLE	19-Dec-08	20.20	0.00	0.50	3.00	58.00	
21	RPM-3n	19-Dec-08	20.10	0.00	0.60	3.00	44.00	
22	RPM-6n	19-Dec-08	19.80	0.00	0.90	3.00	21.00	
23	AVG	19-Dec-08	20.03	0.00	0.67	3.00	41.00	
24								
25	RUN #: A0812-152	Date:	O2	CO	CO2	HC	NOx	
26	IDLE	19-Dec-08	20.30	0.00	0.50	3.00	29.00	
27	RPM-3n	19-Dec-08	20.10	0.00	0.60	2.00	0.00	
28	RPM-6n	19-Dec-08	19.80	0.00	0.60	3.00	0.00	
29	AVG	19-Dec-08	20.07	0.00	0.57	2.67	9.67	
30								
31	AVG RUN		20.05	0.00	0.62	2.83	25.33	
32								
33	DELTA		1.9%	-100.0%	-27.5%	-48.5%	-39.9%	
34								
35								
36								
37								
38	Signatures				Date	12/22/08		

