Analyzer Calibration Report

ANALYZER INFORMATION

Model: *ECOM J2K(N)*
Serial Number: *1289*
Last Stability Test: *01/15/08*
Last Linearity Test: *01/04/08*

PRE-TEST CALIBRATION / POST-TEST VERIFICATION REQUIREMENTS

Max O2 Zero Error: *0.3% O2*
Max O2 Cal Error: *0.5% O2*
Max Zero Drift: *5% SPAN*
Max CO, NO, NO2 Zero Error: *3% SPAN or 1ppm*
Max CO, NO, NO2 Cal Error: *5% SPAN*
Max Span Drift: *5% SPAN*

PRE-TEST CALIBRATION / POST-TEST VERIFICATION RESULTS

Pre-Test Calibration Started: 03/15/08 08:24:05

Post-Test Verification Started: 03/15/08 14:15:47

	O2 (%)	CO (ppm)	NO (ppm)	NO2 (ppm)	
Pre-Test Zero	*0.0*	*0*	*0*	*0*	
Post-Test Zero	*0.0*	*2*	*1*	*1*	
Zero Drift (% SPAN)	*0*	*1*	*4*	*1*	Drift = ((| PreTest Z - PostTest Z |)/Cal Gas) * 100
Pre-Test Span	*20.9*	*200*	*25*	*100*	
Post-Test Span	*20.9*	*203*	*24*	*101*	
Span Drift (% SPAN)	*0*	*1.5*	*4*	*1*	Drift = ((| PreTest S - PostTest S |)/Cal Gas) * 100
Calibration Gas, Ccal	*20.9*	*200* *09/13/08*	*25* *11/20/08*	*100* *05/09/08*	(Cal gas expiration dates included)

Pre-Test / Post-Test Procedure Results: Completed successfully.

CERTIFICATION: Based on the information and belief formed after reasonable inquiry, I certify that the statements and information contained in this report are true, and accurate.

John Smith, ACME Emission Testing, Inc. | Title | Date

Test Date: 02/14/08

Engine Emission Test Recording

PHYSICAL LOCATION

Operational Area: *South District*

Facility Name: *Memorial Hospital*

EQUIPMENT INFORMATION

Equipment Name: *Generator 102*

Unit Number: *G-102*

Model: *G3516*

Serial Number: *A099834HH2*

Service: *Backup Generator*

ANALYZER INFORMATION

Model: *ECOM J2K(N)*

Serial Number: *1289*

Last Stability Test: *01/15/08*

Last Linearity Test: *01/04/08*

TEST RECORDING

Sample Time	O2 (%)	CO (ppm)	NO (ppm)	NO2 (ppm)	Notes
17:00:40	20.9	0	0.0	0.0	Begin Ramp-Up Phase
17:00:55	13.4	52	7.3	0.4	
17:01:10	8.7	88	12.6	0.7	
17:01:25	5.6	114	16.6	0.9	
17:01:40	3.7	132	19.6	1.1	
17:01:55	2.5	145	21.8	1.2	
17:02:10	1.7	154	23.4	1.3	
17:02:25	1.2	160	24.6	1.3	
17:02:40	0.9	164	25.5	1.4	
17:02:55	0.7	168	26.1	1.4	
17:03:10	0.5	170	26.6	1.4	
17:03:25	0.4	171	27.0	1.5	
17:03:40	0.4	172	27.2	1.5	
17:03:55	0.4	173	27.4	1.5	
17:04:10	0.3	174	27.6	1.5	
17:04:25	0.3	174	27.7	1.5	
17:04:40	0.3	174	27.8	1.5	
17:04:55	0.3	175	27.8	1.5	
17:05:10	0.3	175	27.9	1.5	
17:05:25	0.3	175	27.9	1.5	
17:05:40	0.3	175	27.9	1.5	Begin Test Phase
17:05:55	0.3	174	28.1	1.5	
17:06:10	0.3	175	27.9	1.5	
17:06:25	0.2	174	27.8	1.5	
17:06:40	0.3	176	28.1	1.5	
17:06:55	0.4	174	28.0	1.5	
17:07:10	0.4	174	27.9	1.5	
17:07:25	0.3	176	27.9	1.5	
17:07:40	0.4	175	27.7	1.5	
17:07:55	0.3	175	27.9	1.5	
17:08:10	0.3	176	27.9	1.5	
17:08:25	0.3	175	28.0	1.5	
17:08:40	0.3	175	27.9	1.5	
17:08:55	0.3	175	28.2	1.5	
17:09:10	0.4	175	27.8	1.5	
17:09:25	0.3	174	28.1	1.5	
17:09:40	0.4	175	28.1	1.5	
17:09:55	0.3	175	28.0	1.5	
17:10:10	0.2	175	27.9	1.5	
17:10:25	0.3	174	27.8	1.5	
17:10:40	0.3	175	28.2	1.5	
17:10:55	0.3	175	28.1	1.5	
17:11:10	0.3	175	28.2	1.5	
17:11:25	0.2	175	28.3	1.5	
17:11:40	0.4	175	28.2	1.5	
17:11:55	0.3	174	28.0	1.5	
17:12:10	0.4	175	28.1	1.5	
17:12:25	0.3	174	27.9	1.5	
17:12:40	0.3	175	28.2	1.5	
17:12:55	0.3	174	27.7	1.5	
17:13:10	0.3	174	27.9	1.5	
17:13:25	0.3	174	28.2	1.5	

Test Date: 02/14/08

Engine Emission Test Recording

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Sample Time	O2 (%)	CO (ppm)	NO (ppm)	NO2 (ppm)	Notes
17:13:40	0.3	175	28.1	1.5	
17:13:55	0.3	176	27.8	1.5	
17:14:10	0.3	175	28.1	1.5	
17:14:25	0.3	174	28.0	1.5	
17:14:40	0.4	175	28.0	1.5	
17:14:55	0.3	175	28.0	1.5	
17:15:10	0.4	174	28.1	1.5	
17:15:25	0.3	175	27.7	1.5	
17:15:40	0.4	174	27.9	1.5	
17:15:55	0.3	175	28.0	1.5	
17:16:10	0.3	174	27.8	1.5	
17:16:25	0.2	176	28.0	1.5	
17:16:40	0.3	175	27.9	1.5	
17:16:55	0.3	174	27.8	1.5	
17:17:10	0.2	176	28.0	1.5	
17:17:25	0.2	176	27.8	1.5	
17:17:40	0.2	175	27.9	1.5	
17:17:55	0.3	175	28.0	1.5	
17:18:10	0.4	175	27.8	1.5	
17:18:25	0.3	174	28.0	1.5	
17:18:40	0.3	175	27.9	1.5	
17:18:55	0.3	174	28.0	1.5	
17:19:10	0.4	175	27.9	1.5	
17:19:25	0.3	175	28.0	1.5	
17:19:40	0.3	175	28.1	1.5	
17:19:55	0.3	175	28.1	1.5	
17:20:10	0.2	175	28.2	1.5	
17:20:25	0.3	175	28.0	1.5	
17:20:40	0.3	175	27.9	1.5	End Test Phase
17:20:55	7.8	123	20.7	1.1	
17:21:10	12.5	87	15.4	0.8	
17:21:25	15.6	61	11.4	0.6	
17:21:40	17.5	43	8.4	0.4	
17:21:55	18.7	30	6.2	0.3	
17:22:10	19.5	21	4.6	0.2	
17:22:25	20.0	15	3.4	0.2	
17:22:40	20.3	11	2.5	0.1	
17:22:55	20.5	7	1.9	0.1	
17:23:10	20.7	5	1.4	0.1	
17:23:25	20.8	4	1.0	0.0	
17:23:40	20.8	3	0.8	0.0	
17:23:55	20.8	2	0.6	0.0	
17:24:10	20.9	1	0.4	0.0	
17:24:25	20.9	1	0.3	0.0	
17:24:40	20.9	1	0.2	0.0	
17:24:55	20.9	0	0.2	0.0	
17:25:10	20.9	0	0.1	0.0	
17:25:25	20.9	0	0.1	0.0	
17:25:40	20.9	0	0.1	0.0	End Purge Phase

Test Phase Average Values	0.3	175	28.0	1.5

Test Date: 02/14/08

Engine Emission Test Report

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PHYSICAL LOCATION

Operational Area: *South District*
Facility Name: *Memorial Hospital*

EQUIPMENT INFORMATION

Equipment Name: *Generator 102*
Unit Number: *G-102*
Model: *G3516*
Serial Number: *A099834HH2*
Service: *Backup Generator*

PERMIT INFORMATION

Permit Number: *S-4963*
Permit Date: *01/10/08*
Permit Equipment #: *X1-A*
Permit Units: *ppm @ 15% O2*
Pemit CO Limit: *82*
Permit NOx Limit: *11*

ANALYZER INFORMATION

Model: *ECOM J2K(N)*
Serial Number: *1289*
Last Stability Test: *01/15/08*
Last Linearity Test: *01/04/08*

PRE-TEST CALIBRATION / POST-TEST VERIFICATION REQUIREMENTS

Max O2 Zero Error: *0.3% O2*
Max CO, NO, NO2 Zero Error: *3% SPAN or 1ppm*
Max O2 Cal Error: *0.5% O2*
Max CO, NO, NO2 Cal Error: *5% SPAN*
Max Zero Drift: *5% SPAN*
Max Span Drift: *5% SPAN*

PRE-TEST CALIBRATION / POST-TEST VERIFICATION RESULTS

	O2 (%)	CO (ppm)	NO (ppm)	NO2 (ppm)	
Pre-Test Zero	*0.0*	*0*	*0*	*0*	
Post-Test Zero	*0.0*	*2*	*1*	*1*	
Zero Drift (% SPAN)	*0*	*1*	*4*	*1*	Drift = ((| PreTest Z - PostTest Z |)/Cal Gas) * 100
Mean Zero, Ccz	*0.0*	*1*	*0.5*	*0.5*	
Pre-Test Span	*20.9*	*200*	*25*	*100*	
Post-Test Span	*20.9*	*203*	*24*	*101*	
Span Drift (% SPAN)	*0*	*1.5*	*4*	*1*	Drift = ((| PreTest S - PostTest S |)/Cal Gas) * 100
Mean Span, Ccm	*20.9*	*201.5*	*24.5*	*100.5*	
Calibration Gas, Ccal	*20.9*	*200* *09/13/08*	*25* *11/20/08*	*100* *05/09/08*	(Cal gas expiration dates included)

Pre-Test / Post-Test Procedure Results: Completed successfully.

EMISSION TEST RESULTS

Test conducted on the taget machine as found. 02/14/08 14:23:04

	O2 (%)	CO (ppm)	NO (ppm)	NO2 (ppm)	NOx (ppm)	
Average Measured, Cmeas	*0.3*	*175*	*28.0*	*1.5*		
Cal Adjusted, Cadj	*0.3*	*174*	*28.6*	*1.0*	*29.6*	NOx = NO + NO2 Cadj = (Cmeas - Ccz) * (Ccal / (Ccm - Ccz))
Cadj @ 15% O2		*50*			*8.5*	Cadj @ 15% O2 = Cadj * ((5.9) / (20.9 - O2))
Permit Limit (@ 15% O2)		*82*			*11*	

Test Result: Emission levels are below permit limits. (See attached notes.)

CERTIFICATION: Based on the information and belief formed after reasonable inquiry, I certify that the statements and information contained in this report are true, accurate, and representative of the emissions from this source.

John Smith, ACME Emission Testing, Inc. | Title | Date

Test Date: 02/14/08

Engine Emission Test Report

PHYSICAL LOCATION

Operational Area: *South District*
Facility Name: *Memorial Hospital*

EQUIPMENT INFORMATION

Equipment Name: *Generator 102*
Unit Number: *G-102*
Model: *G3516*
Serial Number: *A099834HH2*
Service: *Backup Generator*

PERMIT INFORMATION

Permit Number: *S-4963*
Permit Date: *01/10/08*
Permit Equipment #: *X1-A*
Permit Units: *ppm @ 15% O2*
Pemit CO Limit: *82*
Permit NOx Limit: *11*

ANALYZER INFORMATION

Model: *ECOM J2K(N)*
Serial Number: *1289*
Last Stability Test: *01/15/08*
Last Linearity Test: *01/04/08*

PRE-TEST CALIBRATION / POST-TEST VERIFICATION REQUIREMENTS

Max O2 Zero Error: *0.3% O2*
Max CO, NO, NO2 Zero Error: *3% SPAN or 1ppm*
Max O2 Cal Error: *0.5% O2*
Max CO, NO, NO2 Cal Error: *5% SPAN*
Max Zero Drift: *5% SPAN*
Max Span Drift: *5% SPAN*

NOTES

This was a scheduled AS FOUND test and was completed without difficulties.