

FROM :

FAX NO. :

Oct. 30 2001 02:30PM P4

**TRACE ANALYTICS, INC.**

15768 Hamilton Pool Road • Austin, Texas 78738
 Voice: 800-AIR-1024 or 512-263-0000 • Fax: 512-263-0002
 E-mail: Service@AirCheckLab.com

AirCheck Report™

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Customer No.: 95

Report No.: 01-12673

Compressed Air Systems Inc.
 Mr. Robert Miller, Jr.
 PO Box 567
 Buckingham PA 18912

Date Received: Tue, October 30, 2001
 Date Analyzed: Tue, October 30, 2001
 Date Reported: Tue, October 30, 2001
 Sampled By: Jeffrey W. Goulday
 Date Sampled: Fri, October 26, 2001
 Air Source ID: Mako S/N 81-14-60-1

Sampled for Ground Zero

Results vs NFPA 1500-1997 & CGA G-7.1-1997 Grade D(C) Air Quality Specification

Limiting Characteristic		Concentration			QC Results, %	
		Source	Ambient	Specification	Accuracy	Precision
Oxygen, Volume %		21.0	21.0	19.5-23.5	100	0.0
Nitrogen / Argon, Volume %		78.1 / 0.9	78.1 / 0.9	N/A / N/A	101	0.6
Carbon Monoxide (CO), ppmv		<0.5	8.2	10	100	0.1
Carbon Dioxide (CO ₂), ppmv		372	413	1000	99	2.4
Water (H ₂ O), ppmv/Dewpoint, °F		<2.4 / <-95	N/A	24/-65 (W)	105	4.5
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	2.2	4.8	N/A	100	0.4
	Methane (CH ₄), ppmv	2.2	2.4	N/A	100	0.6
	TVHC (excluding CH ₄), ppmv	<0.8	2.4	N/A	N/A	N/A
Oil (condensed) & Particulate, mg/m ³		<0.04	N/A	5	100	0.0
Odor (provided by customer)		None/Slight	N/A	None/Slight	N/A	N/A
Other		N/A	N/A	N/A	N/A	N/A

This sample COMPLIES with the above referenced specification.

Customer Comments	Compressor Hours 537.72
NOTES	(C) This specification is a combination of NFPA 1500-1997 and CGA G-7.1-1997 Grade D. For each limiting characteristic, the more stringent of the two standards is used. (W) CGA G-7.1-1997 Table 1 Note 3: "... For breathing air used in conjunction with a self-contained breathing apparatus in extreme cold where moisture can condense and freeze causing the breathing apparatus to malfunction, a dew point not to exceed -65°F (24 ppm v/v) or 10 degrees Fahrenheit lower than the coldest temperature expected in the area is required. ... Dew point is expressed in °F at one atmosphere pressure absolute.

*This QC data was acquired with the sample set which includes the samples reported herein. Accuracy relates observed to expected results (100% is complete agreement). Precision relates to reproducibility (0.0% is complete agreement). At Trace Analytics, Inc., calibration and QC account for about 20% of analyses.

Analytical Test Methods	Gases & Vapors Oil & Particulate Particle Size	CAT-A-01 CAT-A-03 CAT-A-04	Gas Chromatography/Mass Spectrometry Analytical Gravimetry Optical Microscopy	Media Sample Numbers	Source Bottle: 711575 Source Filter: 107259 Ambient Bottle: 05521
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Richard A. Smith, C.I.H., Laboratory Director

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