

**Trace Analytics, Inc.**

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AirCheck Report™

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Customer No.: 4592**Report No.: 10-07586****Scuba Works**

Mr. John Dickinson
 351 South US 1 Suite 103
 Jupiter FL 33477

Date Received: **Fri, April 9, 2010**
 Date Analyzed: **Sun, April 11, 2010**
 Date Reported: **Mon, April 12, 2010**
 Sampled By: **John Dickinson**
 Date Sampled: **Tue, April 6, 2010**
 Air Source ID: **Compressor, Routine**

Results vs CGA G-7.1-2004 Grade E(2) Gas Quality Specification

Limiting Characteristic		Concentration			QC Results, %*	
		Source	Ambient	Specification	Accuracy	Precision
Oxygen, Volume %		21.0	N/A	20-22	100	0.1
Nitrogen / Argon, Volume %		78.1 / 0.9	N/A / N/A	N/A - N/A	100	0.1
Carbon Monoxide (CO), ppmv		<0.3	N/A	10	100	0.8
Carbon Dioxide (CO ₂), ppmv		337	N/A	1000	101	2.2
Water (H ₂ O), ppmv/Dewpoint, °F		<3.4 / <-91	N/A	N/A/N/A (W)	101	0.5
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	2.4	N/A	25	101	1.2
	Methane (CH ₄), ppmv	2.4	N/A	N/A	100	0.1
	TVHC (excluding CH ₄), ppmv	<0.7	N/A	N/A	101	1.2
Oil (condensed) & Particulate, mg/m ³		<0.02	N/A	5	100	0.2
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
Other		N/A	N/A	N/A	N/A	N/A
Other		N/A	N/A	N/A	N/A	N/A

This sample COMPLIES with the air/gas quality portion of the above referenced specification.

Customer
Comments

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(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
 (W) Dew point is expressed in °F at one atmosphere pressure absolute.

*Accuracy relates observed to expected results (100% is complete agreement). Precision relates to reproducibility (0.0% is complete agreement).

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: 735984
Source Filter: 137933
Ambient Bottle: N/A



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Richard A. Smith, C.I.H., Laboratory Director

R. A. Smith