

**Trace Analytics, Inc.**

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**AirCheck Report™**

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**Customer No.: 3943****Report No.: 09-06030**

**Cave Dive Florida**  
**Mr. Jim Wyatt**  
**27202 NW 203 Place**  
**High Springs FL 32643**

Date Received: **Wed, March 18, 2009**  
 Date Analyzed: **Wed, March 18, 2009**  
 Date Reported: **Thu, March 19, 2009**  
 Sampled By: **Jim Wyatt**  
 Date Sampled: **Sun, March 15, 2009**  
 Air Source ID: **Bauer Compressor, Model K-14,  
 S/N 81/570/06, Cylinder #4**

**Results vs Oxygen Compat. Air-1995(I) & CGA G-7.1-2004 Grade E Gas Quality Specification**

Limiting Characteristic	Concentration			QC Results, %*	
	Source	Ambient	Specification	Accuracy	Precision
Oxygen, Volume %	21.1	N/A	20-22	100	0.1
Nitrogen / Argon, Volume %	78.0 / 0.9	N/A / N/A	N/A - N/A	100	0.1
Carbon Monoxide (CO), ppmv	<0.3	N/A	2	99	1.3
Carbon Dioxide (CO <sub>2</sub> ), ppmv	410	N/A	1000	100	0.8
Water (H <sub>2</sub> O), ppmv/Dewpoint, °F	3.5 / -91	N/A	24 / -65 (W)	101	0.6
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH <sub>4</sub> ), ppmv	3.5	N/A	100	0.2
	Methane (CH <sub>4</sub> ), ppmv	2.4	N/A	99	1.3
	TVHC (excluding CH <sub>4</sub> ), ppmv	1.1	N/A	100	0.2
Oil (condensed) & Particulate, mg/m <sup>3</sup>	0.04	N/A	0.1	100	0.1
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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(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1-1997 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 1998.  
 (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: 713759 Source Filter: 120026 Ambient Bottle: N/A
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*Richard A. Smith*

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

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