

**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.: 4343**Report No.: 10-18139**

Terrapin Diving Services
Mr. Stephen Goodrich
 1629 Bonnie View Road
 Wilmington NY 12997

Date Received: **Wed, August 18, 2010**
 Date Analyzed: **Wed, August 18, 2010**
 Date Reported: **Thu, August 19, 2010**
 Sampled By: **Stephen Goodrich**
 Date Sampled: **Mon, August 16, 2010**
 Air Source ID: **Poseidon Compressor, Model PFU320, S/N 83210868**

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 %	20.7	N/A	20-22	100	0.2
Nitrogen / Argon, Volume %	79.2 / 0.9	N/A / N/A	N/A - N/A	100	0.2
Carbon Monoxide (CO), ppmv	<0.3	N/A	10	104	7.2
Carbon Dioxide (CO ₂), ppmv	75	N/A	1000	99	0.3
Water (H ₂ O), ppmv/Dewpoint, °F	8.1 / -81	N/A	N/A/N/A (W)	101	1.0
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	2.1	25	100	0.4
	Methane (CH ₄), ppmv	2.1	N/A	100	0.5
	TVHC (excluding CH ₄), ppmv	<0.7	N/A	N/A	100
Oil (condensed) & Particulate, mg/m ³	<0.04	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

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

*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: 720311 Source Filter: 142518 Ambient Bottle: N/A
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Richard A. Smith

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

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