

**Trace Analytics, LLC**

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AirCheck Report™

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Customer No.: 4777

Report No.: 10-27042

Spree Expeditions, Inc.
 Mr. Robert Wasson
 1107 Key Plaza # 157
 Key West FL 33040

Date Received: Mon, December 6, 2010
 Date Analyzed: Mon, December 6, 2010
 Date Reported: Tue, December 7, 2010
 Sampled By: Melanie Wasson
 Date Sampled: Wed, December 1, 2010
 Air Source ID: Mako Compressor & Stored Air,
 S/N 5406EH167

Results vs Oxygen Compat. Air-1995(I) & CGA G-7.1-2004 Grade E(2) Gas Quality Specification

Limiting Characteristic	Concentration			QC Results, %*	
	Source	Ambient	Specification	Accuracy	Precision
Oxygen, Volume %	20.8	N/A	20-22	100	0.4
Nitrogen / Argon, Volume %	78.3 / 0.9	N/A / N/A	N/A - N/A	100	0.4
Carbon Monoxide (CO), ppmv	<0.3	N/A	2	101	1.3
Carbon Dioxide (CO ₂), ppmv	325	N/A	1000	99	2.4
Water (H ₂ O), ppmv/Dewpoint, °F	103 / -44	N/A	N/A/N/A (W)	102	2.1
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	2.7	25	101	1.8
	Methane (CH ₄), ppmv	1.9	N/A	100	0.6
	TVHC (excluding CH ₄), ppmv	0.8	N/A	101	1.8
Oil (condensed) & Particulate, mg/m ³	<0.04	N/A	0.1	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.
 (I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1-1989 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: 749906 Source Filter: 144222 Ambient Bottle: N/A
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Richard A. Smith, C.I.H., Laboratory Director

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AirCheck Report™

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Customer No.: 4777

Report No.: 10-27044

Spree Expeditions, Inc.
 Mr. Robert Wasson
 1107 Key Plaza # 157
 Key West FL 33040

Date Received: Mon, December 6, 2010
 Date Analyzed: Mon, December 6, 2010
 Date Reported: Tue, December 7, 2010
 Sampled By: Melanie Wasson
 Date Sampled: Wed, December 1, 2010
 Air Source ID: Mako Compressor & Stored Air,
 S/N 5406E868

Results vs Enriched Air Nitrox 32%-1995 & CGA G-7.1-2004 Grade E Gas Quality Specification

Limiting Characteristic	Concentration			QC Results, %*	
	Source	Ambient	Specification	Accuracy	Precision
Oxygen, Volume %	32.5	N/A	31.0-33.0	100	0.4
Nitrogen / Argon, Volume %	66.9 / 0.6	N/A / N/A	N/A - N/A	100	0.4
Carbon Monoxide (CO), ppmv	<0.3	N/A	10	101	1.3
Carbon Dioxide (CO ₂), ppmv	<4	N/A	1000	99	2.4
Water (H ₂ O), ppmv/Dewpoint, °F	3.6 / -90	N/A	N/A/N/A (W)	102	2.1
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	1.8	N/A	25	101
	Methane (CH ₄), ppmv	1.8	N/A	N/A	100
	TVHC (excluding CH ₄), ppmv	<0.7	N/A	N/A	101
Oil (condensed) & Particulate, mg/m ³	<0.04	N/A	0.1	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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(C) This specification is a combination of industry standards referenced in "PADI Enriched Air Operations and Resources Guide" ©International PADI, Inc. 1995.
 (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: 749949 Source Filter: 123974 Ambient Bottle: N/A
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Richard A. Smith, C.I.H., Laboratory Director

R. A. Smith