

**Trace Analytics, LLC**

15768 Hamilton Pool Road • Austin, Texas 78738
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AirCheck Report™

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Customer No.: 3746

Report No.: 11-06607

Amigos Dive Center
 Mr. Wayne Kinard
 PO Box 981
 Ft. White FL 32038

Date Received: Mon, March 21, 2011
 Date Analyzed: Mon, March 21, 2011
 Date Reported: Tue, March 22, 2011
 Sampled By: Wayne Kinard
 Date Sampled: Fri, March 18, 2011
 Air Source ID: Bauer / Eagle Comp., Model
 K-14 & KA12D KA-E3OP, S/N
 87/0535/07, 4 Stage Cyl.

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 %	20.6(N)	N/A	20-22	100	0.5
Nitrogen / Argon, Volume %	78.3 / 1.1	N/A / N/A	N/A - N/A	100	0.5
Carbon Monoxide (CO), ppmv	<0.3	N/A	10	102	4.4
Carbon Dioxide (CO ₂), ppmv	432	N/A	1000	99	0.7
Water (H ₂ O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A/N/A (W)	102	2.0
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	1.9	25	101	1.6
	Methane (CH ₄), ppmv	1.9	N/A	100	0.8
	TVHC (excluding CH ₄), ppmv	<0.7	N/A	N/A	101
Oil (condensed) & Particulate, mg/m ³	0.06	N/A	5	100	0.2
Odor (provided by customer)	None/Slight	N/A	None/Slight	N/A	N/A
Atmospheric Dew Point, °F (DT)	-72	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 (W) Dew point is expressed in °F at one atmosphere pressure absolute.
 O (DT) Trace Analytics is not accredited for this analysis. Dew point calculated from the Detector Tube reading. A difference between the
 A laboratory and detector tube values is not uncommon and may be caused by a slight amount of water condensation that the detector tube picks up, but
 T that is flushed through the bottle holder by the end of the 10 minute sampling period. "Not Provided" indicates the Data Sheet did not contain
 C adequate information for a calculation.
 E (N) The source bottle metal seal was punctured a bottle holder needles; this may lead to leakage and high water levels being reported. Please
 S check the condition of the bottle holder needles and replace if bent or crooked.

*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: 709752 Source Filter: 140389 Ambient Bottle: N/A
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Accredited Since 1991 By
 American Association for Laboratory Accreditation
 A2LA Certificate No. 322.01

Accredited In The Chemical Field of Testing

R. A. Smith

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

Results relate only to items tested. This report shall not be reproduced except in full without the written permission of Trace Analytics, LLC.

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AirCheck Report™

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Customer No.: 3746

Report No.: 11-06608

Amigos Dive Center
 Mr. Wayne Kinard
 PO Box 981
 Ft. White FL 32038

Date Received: Mon, March 21, 2011
 Date Analyzed: Mon, March 21, 2011
 Date Reported: Tue, March 22, 2011
 Sampled By: Wayne Kinard
 Date Sampled: Fri, March 18, 2011
 Air Source ID: Mako Compressor, Model K-15,
 S/N 8500 97 00, 4 Stage
 Cylinder

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 %	21.5	N/A	20-22	100	0.5
Nitrogen / Argon, Volume %	77.5 / 0.9	N/A / N/A	N/A - N/A	100	0.5
Carbon Monoxide (CO), ppmv	<0.3	N/A	10	102	4.4
Carbon Dioxide (CO ₂), ppmv	17	N/A	1000	99	0.7
Water (H ₂ O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A/N/A (W)	102	2.0
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	1.9	25	101	1.6
	Methane (CH ₄), ppmv	1.9	N/A	100	0.8
	TVHC (excluding CH ₄), ppmv	<0.7	N/A	101	1.6
Oil (condensed) & Particulate, mg/m ³	<0.05	N/A	5	100	0.2
Odor (provided by customer)	None/Slight	N/A	None/Slight	N/A	N/A
Atmospheric Dew Point, °F (DT)	-72	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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 (DT) Trace Analytics is not accredited for this analysis. Dew point calculated from the Detector Tube reading. A difference between the laboratory and detector tube values is not uncommon and may be caused by a slight amount of water condensation that the detector tube picks up, but that is flushed through the bottle holder by the end of the 10 minute sampling period. "Not Provided" indicates the Data Sheet did not contain adequate information for a calculation.

*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: 738201 Source Filter: 110336 Ambient Bottle: N/A
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