



From:
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Report 16-31339, Sampled on
10/31/2016

Sample Due in 90 Days
1/29/2017

To:
Mr. Ben Harris
Adventures Under The Sea
4218 Henderson Blvd.
Tampa, FL 33629

ADVENTURES UNDER THE SEA
IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:
CGA G-7.1-2011 GRADE E (2)
AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"



American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

R.A. Smith
Richard A. Smith, Laboratory Director

Analytical Test Methods		Media Sampled	Estimate of Uncertainty
Gases & Vapors	CAT-A-01 Gas Chromatography/Mass Spectrometry	Source Bottle: 764672	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace Analytics.
Oil & Particulate	CAT-A-03 Analytical Gravimetry	Ambient Bottle: N/A	
Particle Size	CAT-A-04 Optical Microscopy	Source Filter: 147523	
Pressure Dew Point	CAT-A-07 Gas Detector Tube	Detector Tube: Draeger 5-a/P	

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Sample & Report Information

Results of Test: PASS

Sampled For	Adventures Under The Sea	Analytes	Source Results	Ambient Results	Specification ¹ Allowable Limits
Sampled By	Ben Harris	Oxygen, Volume %	21.0(Z)	N/A	20-22
Sampled On	10/31/2016	Nitrogen, Volume %	78.0	N/A	N/A
Received On	11/9/2016	Argon, Volume %	1.0	N/A	N/A
Analyzed On	11/9/2016	Nitrogen Plus Argon, Volume %	79.0	N/A	N/A
Sampled From	Stored Air	Carbon Monoxide (CO), ppmv	<0.3	N/A	10
Make	Worthington	Carbon Dioxide (CO ₂), ppmv	54	N/A	1000
Model	767-430	Water Content (H ₂ O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A / N/A (W)
		Atmospheric Dew Point, °F (DT)	N/A	N/A	N/A
		TVHC (including CH ₄), ppmv	3.8	N/A	25
		Methane (CH ₄), ppmv	2.3	N/A	N/A
		TVHC (excluding CH ₄), ppmv	1.5	N/A	N/A
		Oil (condensed) & Particulate, mg/m ³	<0.12	N/A	5
		Odor (provided by customer)	None/Slight	N/A	None/Slight
Sample Phase	After Filter Change	Other	N/A	N/A	N/A
Customer Comments		Other	N/A	N/A	N/A
		Other	N/A	N/A	N/A

PASS

(2) This specification is intended for or applications that do not require a water content specification. CGA G-7.1-2011 has no water content limit for Grade E, for which the typical use is listed as SCUBA air. As allowed by CGA G-7.1-2011, Table1, Note 6, water content is not specified **but is** reported. Note 6: "The water content of compressed air required for any particular QVL [grade] can vary with the intended use from saturated to very dry."
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(Z) Some Data Sheet information was not provided. For those fields requiring an entry to complete the report, we inserted default values.

Report Number 16-31339
Customer ID 744
Date Reported 11/10/2016
Frequency 90 Days
Next Sample Due Approx. **1/29/2017**