

**Trace Analytics, Inc.**

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AirCheck Report™

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Customer No.: 4704**Report No.: 10-19667**

Fort Erie Underwater Recovery Unit
Mr. John Gilmour
35 Jarvis St.
Fort Erie ON L2A2S3

Date Received: **Thu, September 9, 2010**
 Date Analyzed: **Thu, September 9, 2010**
 Date Reported: **Fri, September 10, 2010**
 Sampled By: **John C. Gilmour**
 Date Sampled: **Wed, September 1, 2010**
 Air Source ID: **Bauer Stored Air, Model UN-12-E1, 4 Cylinder, Routine**

Results vs CSA Standard Z180.1-2000(L) Gas Quality Specification

Limiting Characteristic	Concentration			QC Results, %*	
	Source	Ambient	Specification	Accuracy	Precision
Oxygen, Volume %	21.1	N/A	20-22	100	0.4
Nitrogen / Argon, Volume %	78.1 / 1.0	N/A / N/A	78 - 80	100	0.4
Carbon Monoxide (CO), ppmv	<0.3	N/A	5	100	0.2
Carbon Dioxide (CO ₂), ppmv	430	N/A	500	99	0.3
Water (H ₂ O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A/N/A (W)	101	1.5
Total Volatile Hydrocarbon Content (TVHC)	TVHC (including CH ₄), ppmv	2.7	N/A	100	0.3
	Methane (CH ₄), ppmv	2.7	10	99	1.2
	TVHC (excluding CH ₄), ppmv	<0.7	N/A	100	0.3
Oil (condensed) & Particulate, mg/m ³	0.27(P)	N/A	1	100	0.2
Odor (provided by customer)	None/Slight	N/A	None/Slight	N/A	N/A
Halogenated Hydrocarbons, ppmv	<0.1	N/A	5	N/A	N/A
Pressure Dewpoint, °C	<-68	N/A	0	N/A	N/A
Atmospheric Dew Point, °F (DT)	<-90	N/A	N/A	N/A	N/A

This sample COMPLIES with the air/gas quality portion of the above referenced specification.

Customer
Comments

(W) Dew point is expressed in °F at one atmosphere pressure absolute.
(L) CSA Z180.1-00, 15.3.9: "Compressed breathing air at pressures less than 15.3 MPa (2216 psig) shall have a pressure dew point at least 5°C (9°F) below the lowest temperature to which any part of the compressed breathing air pipeline or the accepted respirator may be exposed at any season of the year. ..." If not provided on the Data Sheet, pressure dew point limit is calculated at 0°C at 100 psig.
(P) Evidence of the presence of particulate was observed with the naked eye by the analyst.
(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: 726448 Source Filter: 144954 Ambient Bottle: N/A
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Accredited In The **Chemical** Field of Testing

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

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R. A. Smith