



From:
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Report 17-07949, Sampled on
3/7/2017

Next Sample Due Quarterly, Approximately
6/7/2017

To:
Total Diving
6356 Sherbrooke West
Montreal, QC H4B 1M9
CANADA

TOTAL DIVING
IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:
CSA STANDARD Z275.2-15 OCCUPATIONAL SAFETY CODE FOR DIVING OPERATIONS (H)
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: 756508	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: 4146	
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	Total Diving	Analytes	Source Results	Ambient Results	Specification ¹ Allowable Limits
Sampled By	Sebastien Savignac	Oxygen, Volume %	20.6	N/A	20-22
Sampled On	3/7/2017	Nitrogen, Volume %	78.5	N/A	N/A
Received On	3/15/2017	Argon, Volume %	0.9	N/A	N/A
Analyzed On	3/16/2017	Nitrogen Plus Argon, Volume %	79.4	N/A	78-80
Sampled From	Compressor & Stored Air	Carbon Monoxide (CO), ppmv	0.7	N/A	3
Make	Jordair	Carbon Dioxide (CO ₂), ppmv	396	N/A	600
Model	K15-3EV	Water Content (H ₂ O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	27 / -63 (W)
Serial No.	82/23/6/01	Atmospheric Dew Point, °F (DT)	-86	N/A	N/A
Cylinder(s)	4	TVHC (including CH ₄), ppmv	2.3	N/A	15
		Methane (CH ₄) ppmv	2.3	N/A	10
		TVHC (excluding CH ₄), ppmv	<0.7	N/A	5
		Oil (condensed) & Particulate, mg/m ³	<0.03	N/A	0.1
Hours	3906	Odor (provided by customer)	None/Slight	N/A	None/Slight
		Halogenated Hydrocarbons, ppmv	<0.1	N/A	5
Customer Comments		Atmospheric Dewpoint, °C	<-68	N/A	-53
		Pressure Dewpoint, °C	<-53	N/A	-5

PASS

(H) Compressed breathing air in cylinders and piping ≥ 15.3 MPa (2216 psig) shall have an atmospheric dew point ≤ -53°C (-63°F) or water vapor ≤ 27 mL/m³ (ppm) and SHOULD have a pressure dew point ≤ 5°C (9°F) below the lowest temperature to which the cylinder or piping can be exposed during any time of the year at that geographic location. If an operating pressure is not provided, we will use 20.7 MPag (3000 psig) with the Greenspan water vapour enhancement factor applied.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading.

Report Number 17-07949
Customer ID 2292
Date Reported 3/16/2017
Frequency Quarterly

Next Sample Due Approx. **6/7/2017**