Aircheck Report and Certificate

From:

Trace Analytics, LLC 15768 Hamilton Pool Road Austin, Texas 78738

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

TRACE Analytics 🛭 🛚

Report 17-34020, Sampled on

11/10/2017



Analysis Certificate

Next Sample Due Quarterly, Approximately

2/10/2018

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"



Results of Test: PASS

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

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

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Sample & Repo	ort Information			
Sampled For	Total Diving			
Sampled By	Sebastien Savignac			
Sampled On	11/10/2017			
Received On	11/16/2017			
Analyzed On	11/17/2017			
Sampled From	Compressor & Stored Air			
Make	Jordair			
Model	K15-3EV			
Serial No.	82/23/6/01			
Cylinder(s)	4			
Hours	4298			
Sample Phase	Routine			
Customer				
Comments				
Report Number	17-34020			
Customer ID	2292			
Date Reported	11/20/2017			
Frequency	Quarterly			
Next Sample Due Approx.	2/10/2018			

Analytes	Source Results	Ambient Results	Specification ¹ Allowable Limits				
Oxygen, Volume %	21.6	N/A	20-22				
Nitrogen, Volume %	77.6	N/A	N/A				
Argon, Volume %	0.8	N/A	N/A				
Nitrogen Plus Argon, Volume %	78.4	N/A	78-80				
Carbon Monoxide (CO), ppmv	<0.3	N/A	3				
Carbon Dioxide (CO ₂), ppmv	318	N/A	600				
Water Content (H ₂ O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	27 / -63 (W)				
Atmospheric Dew Point, °F (DT)	-84	N/A	N/A				
TVHC (including CH ₄), ppmv	3.0	N/A	15	'			
Methane (CH ₄) ppmv	2.0	N/A	10				
TVHC (excluding CH ₄), ppmv	1.0	N/A	5				
Oil (condensed) & Particulate, mg/m ³	0.08	N/A	1				
Odor (provided by customer)	None/Slight	N/A	None/Slight				
Halogenated Hydrocarbons, ppmv	<0.1	N/A	5				
Atmospheric Dewpoint, °C	<-68	N/A	-53				
Pressure Dewpoint, °C	<-53	N/A	-5				
(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 Sł							

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.