Aircheck Report and Certificate

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

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

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

TRACE Analytics LLC Analysis Certificate

Report 15-34432, Sampled on
12/18/2015

Next Sample Due Quarterly, Approximately
3/18/2016

Total Diving

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

CSA Standard Z275.2-2011 Occupational Safety Code for Diving Operations (H)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE

FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

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

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	759173	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.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	N/A	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	3451	

Sample & Report Information

Sampled For	Total Diving
Sampled By	Sebastien Savignac
Sampled On	12/18/2015
Received On	12/22/2015
Analyzed On	12/23/2015
Sampled From	Compressor & Stored Air
Make	Jordair
Model	K15-3EV
Serial No.	82/23/6/01
Cylinder(s)	4
Hours	3366
Sample Phase	Routine
Customer Comments	
Report Number	15-34432
Customer ID	2292
Date Reported	12/28/2015
Frequency	Quarterly
Next Sample Due Approx.	**3/18/2016**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits
Oxygen, Volume %	20.9	N/A	20-22
Nitrogen, Volume %	78.2	N/A	N/A
Argon, Volume %	0.9	N/A	N/A
Nitrogen Plus Argon, Volume %	79.1	N/A	78-80
Carbon Monoxide (CO), ppmv	<0.3	N/A	3
Carbon Dioxide (CO_2), ppmv	441	N/A	600
Water Content (H_2O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	27 / -63 (W)
Atmospheric Dew Point, °F (DT)	<-98	N/A	N/A
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
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	-23	N/A	0

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/m^3 (ppm) and SHOULD have a pressure dew point ≤ 5°C (9°F) below the lowest temperature towhich 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 MPa (3000 psig).

(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.