

# 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](mailto:service@AirCheckLab.com)

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

# TRACE Analytics LLC

Report 15-25336, Sampled on

**9/13/2015**



# Analysis Certificate

Next Sample Due Quarterly, Approximately

**12/13/2015**

## 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"



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: 746545	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: 3700	

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### Sample & Report Information

### Results of Test: PASS

Sampled For	Total Diving	Analytes	Source Results	Ambient Results	Specification <sup>1</sup> Allowable Limits
Sampled By	Sebastien Savignac	Oxygen, Volume %	20.8	N/A	20-22
Sampled On	9/13/2015	Nitrogen, Volume %	78.3	N/A	N/A
Received On	9/17/2015	Argon, Volume %	0.9	N/A	N/A
Analyzed On	9/17/2015	Nitrogen Plus Argon, Volume %	79.2	N/A	78-80
Sampled From	Compressor & Stored Air	Carbon Monoxide (CO), ppmv	<0.3	N/A	3
Make	Jordair	Carbon Dioxide (CO <sub>2</sub> ), ppmv	466	N/A	600
Model	K15-3EV	Water Content (H <sub>2</sub> O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	27 / -63 (W)
Serial No.	82/23/6/01	Atmospheric Dew Point, °F (DT)	<-92	N/A	N/A
Cylinder(s)	4	TVHC (including CH <sub>4</sub> ), ppmv	2.3	N/A	15
		Methane (CH <sub>4</sub> ), ppmv	2.3	N/A	10
		TVHC (excluding CH <sub>4</sub> ), ppmv	<0.7	N/A	5
		Oil (condensed) & Particulate, mg/m <sup>3</sup>	0.05	N/A	0.1
Hours	3265	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
Report Number	15-25336	(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 <sup>3</sup> (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 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.			
Customer ID	2292				
Date Reported	9/18/2015				
Frequency	Quarterly				
Next Sample Due Approx.	<b>12/13/2015</b>				

**PASS**