

Certificate of Analysis

Rec & Tek SCUBA Inc.

is in compliance with the air/gas quality portion of the specification:

CSA Z180.1-2019 & Oxygen Compatible Air-2003 (I)

as analyzed and reported on this certificate for the sample described under section "sample & report information"



Analytical Test Methods:		Media Sampled:	Estimate of Uncertainty:
Gases & Vapors:	CAT-A-01 Gas Chromatography/Mass Spectrometry	Source Bottle: check	The average estimate of uncertainty at standard specification limits for 10 compounds normally reported is $\pm 3.24\%$, at a 95% confidence interval ($k=2$). For more detailed uncertainty information, contact Trace Analytics, LLC.
Oil & Particulate:	CAT-A-03 Analytical Gravimetry	Ambient Bottle: check	
Particle Size:	CAT-A-04 Optical Microscopy	Source Filter: check	
Pressure Dew Point:	CAT-A-07 Gas Detector Tube	Detector Tube: Draeger 5-a/P	

Maria Sandoval
Maria Sandoval, Laboratory Director

Results of Test: PASS

Sample & Report Information

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

To:
Mr. Mitchell Wilson
Rec & Tek SCUBA Inc.
529 Upper Sherman Avenue
Hamilton, ON L8V 3L9
Canada

Analytes	Source Results (1)	Ambient Results	Specification Allowable Limits
Oxygen, Volume %	21.1	N/A	20-22
Nitrogen, Volume %	78.1	N/A	N/A
Argon, Volume %	0.9	N/A	N/A
Nitrogen Plus Argon, Volume %	79.0	N/A	78-80
Carbon Monoxide (CO), ppmv	<0.5	N/A	2
Carbon Dioxide (CO2), ppmv	107	N/A	500
Water Content (H2O), ppmv/Dewpoint, °F (SB)	<3.4 / <-91	N/A	27 / -63 (W)
TVHC (including CH4), ppmv	3.2	N/A	15
Methane (CH4) ppmv	1.8	N/A	10
TVHC (excluding CH4), ppmv	1.4	N/A	5
Oil (condensed) & Particulate, mg/m3	0.05	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 (L)	<-68	N/A	-53
Other	N/A	N/A	N/A

Sampled For	Rec & Tek SCUBA Inc.
Sampled By	Mitchell Wilson
Sampled On	5/6/2021
Received On	5/13/2021
Analyzed On	5/14/2021
Sampled From	Compressor
Make	Bauer
Model	K-12-3EU
Serial No.	96 / 1945 / 07
Cylinder(s)	4
Other ID	Compressor Room
Hours	705
Sample Phase	After Filter Change
Customer Comments	Unit was purchased from a fire department in April 2021
Report Number	21-15038
Customer ID	4020
Date Reported	5/14/2021
Frequency	Semi-Annual

(1) Results apply to the sample as received from the customer. Information supplied by the customer can affect the validity of results.
 Water Content (H2O), ppmv/Dewpoint, °F (SB)
 (I) CGA G-7.1 Grade E as modified by IANTD in their document Blending Standards, 2003.
 (L) Dew Point (DP) for CSA Z180.1-13: In cylinders and piping ≥ 15.3 MPa (2216 psig), atmospheric dew point $\leq -53^\circ\text{C}$ (-63°F).
 (W) Dew point is expressed in °F at one atmosphere pressure absolute.