

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: 798324	The average estimate of uncertainty at standard specification limits for 10 compounds normally reported is ±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: N/A	
Particle Size:	CAT-A-04 Optical Microscopy	Source Filter: 009921	
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 <hr/> 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	Sampled For	Rec & Tek SCUBA Inc.
	Oxygen, Volume %	20.9	N/A	20-22	Sampled By	Glenn Turner
	Nitrogen, Volume %	78.2	N/A	N/A	Sampled On	2/3/2024
	Argon, Volume %	0.9	N/A	N/A	Received On	2/12/2024
	Nitrogen Plus Argon, Volume %	79.1	N/A	78-80	Analyzed On	2/15/2024
	Carbon Monoxide (CO), ppmv	<0.5	N/A	2	Sampled From	Compressor
	Carbon Dioxide (CO2), ppmv	547	N/A	600	Comp Make	Bauer
	Water Content (H2O), ppmv/Dewpoint, °F (DT)	10 / -76	N/A	27 / -63 (W)	Model	K-12-3EU
	TVHC (including CH4), ppmv	4.4	N/A	15	Serial No.	96 / 1945 / 07
	Methane (CH4) ppmv	1.7	N/A	10	Filtration	
	TVHC (excluding CH4), ppmv	2.7	N/A	5	Cylinder(s)	4
	Oil (condensed) & Particulate, mg/m3	<0.03	N/A	0.1	Other ID	Compressor Room
	Odor (provided by customer)	None/Slight	N/A	None/Slight	Hours	1074
Halogenated Hydrocarbons, ppmv	<0.1	N/A	5	Sample Phase	Routine	
Atmospheric Dew Point, °C (L)	-60	N/A	-53	Customer Comments		
Other	N/A	N/A	N/A	Report Number	24-04835 R1	
(1) Results apply to the sample as received from the customer. Information supplied by the customer can affect the validity of results. (DT) Water content Pass/Fail was determined by water vapor detector tube analysis. (I) CGA G-7.1 Grade E as modified by IANTD in their document Blending Standards, 2003. (L) Dew Point (DP) for CSA Z180.1-19: In cylinders and piping ≥15.3 MPa (2216 psig), atmospheric dew point ≤ -53°C (-63°F). CSA Z180.1-2019: Compressed breathing air in cylinders or piping operating at pressures equal to or greater than 2216psig shall meet the limits above and should have a pressure dew point not exceeding 5°C (9°F) below the lowest temperature to which the cylinder or piping can be exposed at any season of the year in the applicable geographic location. (W) Dew point is expressed in °F at one atmosphere pressure absolute. (DT) Detector tube readings performed by the customer. Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading. (R1) This revision corrects the System Spec from that in the original report. Analytical results have not been altered beyond rounding corrections.					Customer ID	4020
					Date Reported	2/16/2024
					Frequency	Semi-Annual