



# 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".

Results relate only to items tested. This report shall not be reproduced except in full without the written permission Trace Analytics, LLC.



Analytical Test Methods:		Media Sampled:	Estimate of Uncertainty:
Gases & Vapors:	CAT-A-01 Gas Chromatography/Mass Spectrometry	Source Bottle: 7026242	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: 441122	
Particle Size:	CAT-A-04 Optical Microscopy	Source Filter: 1228764	
Pressure Dew Point:	CAT-A-07 Gas Detector Tube	Detector Tube: Draeger 5-a/P	

*Westin Farley*  
Westin Farley, Data Analyst

### Results of Test: PASS

### Sample & Report Information (2)

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 %	21.3	21.1	20-22
Nitrogen, Volume %	77.8	78.0	N/A
Argon, Volume %	0.9	0.9	N/A
Nitrogen Plus Argon, Volume %	78.7	N/A	78-80
Carbon Monoxide (CO), ppmv	0.9	2.6	2
Carbon Dioxide (CO2), ppmv	324	463	600
Water Content (H2O), ppmv/Dewpoint, °F (DT)	7 / -81	N/A	27 / -63 (W)
TVHC (including CH4), ppmv	4.0	14.2	15
Methane (CH4) ppmv	1.8	1.6	10
TVHC (excluding CH4), ppmv	2.2	12.6	5
Oil (condensed) & Particulate, mg/m3	0.09	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Halogenated Hydrocarbons, ppmv	<0.1	N/A	5
Atmospheric Dew Point, °C (L)	-63	N/A	-53
Other	N/A	N/A	N/A

(1) Results apply to the sample as received from the customer. Information supplied by the customer can affect the validity of results. (2) Information in this section is supplied by the customer (except dates received, analyzed and reported). (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  $\geq 15.3$  MPa (2216 psig), atmospheric dew point  $\leq -53^\circ\text{C}$  ( $-63^\circ\text{F}$ ). 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  $5^\circ\text{C}$  ( $9^\circ\text{F}$ ) 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  $^\circ\text{F}$  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.

(P) Evidence of the presence of particulate was observed with the naked eye on the filter at the time of analysis.

Sampled For	Rec & Tek Scuba Inc.
Sampled By	Mitchell Wilson
Sampled On	9/19/2025
Received On	9/29/2025
Analyzed On	10/9/2025
Sampled From	Compressor
Comp Make	Bauer
Model	K-12-3EU
Serial No.	96 / 1945 / 07
Filtration	Lawrence Factor
Cylinder(s)	4
Other ID	Compressor Room
Hours	1301
Customer Comments	adjusted pressure, maintaining value to 1800 PSI., from 6000 PSI. Rebuilt aero drains. Used trace rental test kit.
Report Number	25-32178
Customer ID	4020
Date Reported	10/9/2025
Frequency	Semi-Annual