

# Certificate of Analysis

## SA Scuba Shack

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

### CGA G-7.1-2018 Grade E (2)

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: 7009688	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: 438716	
Particle Size: CAT-A-04 Optical Microscopy	Source Filter: 1212365	
Pressure Dew Point: CAT-A-07 Gas Detector Tube	Detector Tube: Draeger 5-a/P	

  
Maria Sandoval, Laboratory Director

Results of Test: **PASS**

Sample & Report Information

<b>From:</b> Trace Analytics, LLC 15768 Hamilton Pool Road Austin, Texas 78738	Analytes	Source Results (1)	Ambient Results	Specification Allowable Limits	Sampled For	SA Scuba Shack
	Oxygen, Volume %	20.8	20.8	20-22	Sampled By	Robert Seibert
	Nitrogen, Volume %	78.3	78.3	N/A	Sampled On	1/6/2024
	Argon, Volume %	0.9	0.9	N/A	Received On	1/18/2024
	Nitrogen Plus Argon, Volume %	79.2	N/A	N/A	Analyzed On	1/19/2024
	Carbon Monoxide (CO), ppmv	1.0	<0.5	10	Comp Make	Aikin
	Carbon Dioxide (CO2), ppmv	660	403	1000	Model	W4-15-345 FP6M
	Water Content (H2O), ppmv/Dewpoint, °F (DT)	N/A	N/A	N/A / N/A (W)	Serial No.	948564
	TVHC (including CH4), ppmv	9.1	5.1	25	Filtration	
	Methane (CH4) ppmv	2.3	2.3	N/A	Hours	1202
TVHC (excluding CH4), ppmv	6.8	2.8	N/A	Customer Comments		
Oil (condensed) & Particulate, mg/m3	<0.05	N/A	5	Report Number	24-01661	
Odor (provided by customer)	None/Slight	N/A	None/Slight	Customer ID	33744	
Other	N/A	N/A	N/A	Date Reported	1/19/2024	
Other	N/A	N/A	N/A	Frequency	Quarterly	
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.  
(DT) Water content Pass/Fail was determined by water vapor detector tube analysis.

(2) This specification is intended for or applications that do not require a water content specification. CGA G-7.1-2011 has no water content limit for Grade E, for which the typical use is listed as SCUBA air. As allowed by CGA G-7.1-2011, Table 1, Note 6, water content is not specified **but is** reported. Note 6: "The water content of compressed air required for any particular QVL [grade] can vary with the intended use from saturated to very dry."

(W) Dew point is expressed in °F at one atmosphere pressure absolute.