

Certificate of Analysis

High Coast Diving

Neither passed nor failed compliance with the air/gas quality portion of the specification:

CGA G-7.1-2018 Grade E (O) & L(O)

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: 7005922	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: N/A	
Particle Size:	CAT-A-04 Optical Microscopy	Source Filter: 009197	
Pressure Dew Point:	CAT-A-07 Gas Detector Tube	Detector Tube: Draeger 5-a/P	

Maria Sandoval
 Maria Sandoval, Laboratory Director

Results of Test: A PASS/FAIL result could not be ascertained.

Sample & Report Information (2)

From:	Analytes	Source Results (1)	Ambient Results	Specification Allowable Limits	Sampled For	High Coast Diving
Trace Analytics, LLC 15768 Hamilton Pool Road Austin, Texas 78738	Oxygen, Volume %	21.0	N/A	20-22	Sampled By	Daniel Holmberg
	Nitrogen, Volume %	78.1	N/A	N/A	Sampled On	4/14/2024
	Argon, Volume %	0.9	N/A	N/A	Received On	4/26/2024
	Nitrogen Plus Argon, Volume %	79.0	N/A	N/A	Analyzed On	4/29/2024
	Carbon Monoxide (CO), ppmv	<0.5	N/A	10	Sampled From	Compressor
	Carbon Dioxide (CO2), ppmv	501	N/A	1000	Comp Make	Hamworthy
	Water Content (H2O), ppmv/Dewpoint, °F (SB)	NA / NA	N/A	24 / -65 (W)	Model	BP17V
	TVHC (including CH4), ppmv	5.9	N/A	25	Serial No.	82219
	Methane (CH4) ppmv	2.0	N/A	N/A	Filtration	
	TVHC (excluding CH4), ppmv	3.9	N/A	N/A		
	Oil (condensed) & Particulate, mg/m3	<0.03	N/A	5		
	Odor (provided by customer)	None/Slight	N/A	None/Slight	Hours	2756
	Other	N/A	N/A	N/A	Sample Phase	Before Filter Change
Other	N/A	N/A	N/A	Customer Comments		
Other	N/A	N/A	N/A	Report Number	24-14185	
				Customer ID	4806	
				Date Reported	4/29/2024	
				Frequency	Annual	

(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), (SB) Water content Pass/Fail was determined by source bottle water vapor analysis.
 (O) This specification is for applications where the CGA G-7.1 SCBA requirement for water content is employed. It combines the stricter limits of the Grades L and E.
 (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.