

Your Project #: H068
Site Location: DIVERS DEN

Attention: Kelly McAdam

Divers Den
3 Bay St S
Tobermory, ON
CANADA N0H 2R0

Report Date: 2015/07/15
Report #: R3574508
Version: 1

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5D8279

Received: 2015/07/08, 10:00

Sample Matrix: Nitrox
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Clean Air Matrix Screen (ppm levels) (1)	1	N/A	2015/07/15	CAM SOP-00200	GC/FID
Clean Air Matrix (% Oxygen,Nitrogen) (1)	1	N/A	2015/07/15	CAM SOP-00200	GC/TCD
Dewpoint (1)	1	N/A	2015/07/15	CAM SOP-00205	Hygrometer
Halogenated Hydrocarbons (1)	1	N/A	2015/07/15	CAM SOP-00201	GC/ECD
Clean Air Matrix (% Oxygen) (1)	1	N/A	2015/07/15	CAM SOP-00210	Paramagnetic Analyse
Odour (1)	1	N/A	2015/07/15	CAM SOP-00205	
Oil & Particulates (2)	1	N/A	2015/07/15	CAM SOP-00206	Gravimetric
Other Detected Compounds (1)	1	N/A	2015/07/15	CAM SOP-00201, 204, 215, BRL SOP-00304	
Non-methane hydrocarbons (methane equiv) (3)	1	N/A	2015/07/15	CAM SOP 00202	GC/FID
Water Vapour (4)	1	N/A	2015/07/15	CAM SOP-00205	Hygrometer

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

- (1) Date Analyzed is the date the analytical batch was created.
- (2) Gravimetric. Date Analyzed is the date the analytical batch was created.
- (3) GC/FID. Date Analyzed is the date the analytical batch was created.
- (4) Hygrometer. MDL is dependent on pressure and volume of sample. Date Analyzed is the date the analytical batch was created.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Patrick Huynh, Compressed Breathing Gases Project Manager
Email: PHuynh@maxxam.ca
Phone# (905) 817-5700

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CERTIFICATE OF ANALYSIS

-2-

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

DATE OF REPORT: July 15, 2015

Page # : 3

REPORT # : B5D8279
LAB # : AOX352

REPORT OF ANALYSIS: COMPRESSED AIR
REFERENCE: CAN/CSA-Z275.2-11 Occupational Safety Code
for Diving Operations

REPORT TO: Divers Den
3 Bay St S, Tobermory ON N0H 2R0

REF. NO.:

ATTENTION: Kelly McAdam

SYSTEM PRESSURE: 4000 **CYL:** H068

SAMPLE SOURCE: DIVERS DEN

DATE RECEIVED: July 8, 2015

SAMPLE LOCATION: 3 BAY ST. TOBERMORY N0H 2R0

SAMPLE DATE: July 6, 2015


COMPRESSOR MODEL/SERIAL: BAUER KA-15-H, Ser. 529-0143


PURIFICATION MODEL/SERIAL: N/A N/A, Ser. N/A

ANALYSIS RESULTS

Components	Concentration Units	Maximum Allowable	Analysed Sample
Carbon Dioxide	ppmv	500	51
Oxygen	% v/v		32.6
Nitrogen	% v/v		66.9
Methane	ppmv	20	3.1
Carbon Monoxide	ppmv	3	<0.5
Non-methane hydrocarbons	ppmv	5	0.2
Halogenated Hydrocarbons	ppmv	5	<0.05
Atmospheric Dewpoint	°C	-53	-59
Water Vapour	ppmv		12
Odour	N/A	None	none detected
Oil, Particulates and Condensates	mg/m3	0.1	<0.1
Other Detected Compounds	ppmv		none detected

The above sample was shown on analysis to be 32.6% Oxygen and 66.9% Nitrogen. Trace contaminants were within the limits allowed in Table 7 of the referenced standard.

Approved by : 
Vasan Thiagarajah
Analyst, Compressed Gases

Certified by : 
Tonghui (Jenny) Chen
Analyst, Compressed Gases