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## Compressed Breathing Air Analysis

High Pressure (above 2216 psig)

Test Date: **July 23, 2025** Job # **83405**  
Sample Collection Date: July 22, 2025 Sample Received: July 23, 2025  
Submitted By: **Majestic Hydrotest & Fire**  
Compressor: **Irwin Air** Serial #: **6971** Unit #: **M13-3EVUS-CO**  
Cylinder #: **HPFT 24** Hours: **2**  
Sampling Location: **off of compressor**

Compounds Present	Maximum Allowable CSA Z180.1	Measured Quantity
ACM02		
Oxygen	20% - 22%	20.7 %
ACM05		
Nitrogen & Rare Gases	78% - 80%	79.3 %
Carbon Monoxide	5 ppm	< 0.75 ppm
Carbon Dioxide	600 ppm	398.6 ppm
Methane	10 ppm	2.1 ppm
Volatile Non-Methane Hydrocarbons	5 ppm	< 0.44 ppm
Volatile Halogenated Hydrocarbons	5 ppm	< 0.2 ppm
ACM04		
Odour	Free of Pronounced Odour	None
ACM03		
Oil, Particulates & Condensates	1 mg / m3	< 0.1 mg / m3
ACM01		
Sample Dew Point	Minus 53 degrees C/27ppm	-63.9 °C   6.1 ppm

## Sample Passed

**The dewpoint, as measured in the above sample, limits the use of the compressed air to the pressure dew point temperature defined in Table 1 (Z180.1-19). The MEASURED quantities are otherwise .... WITHIN ... the limits of the standard Z180.1.**

Compressed breathing air in cylinders and piping operating at pressures equal to or greater than 2216 psig

a) shall have an ATMOSPHERIC DEW POINT equal to or below -53 °C (27 ppm)

b) should have a PRESSURE DEW POINT 5°C below the lowest temperature to which the cylinder and piping may be exposed at any season of the year.

Results apply to sample as received. Data provided during sample collection is used in the calculation of ACM03. Analysis was conducted under controlled environmental conditions.

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Val: 12-2

118806.9 R.1.2

Suggested next testing date in accordance  
with CSA Standard

**January 23, 2026**

Analyst: **A. Reay**

Entered by: