



SCIENCE & ENGINEERING

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## Compressed Diving Air and Mixed Gas Analysis

**R**PC's air quality laboratory employs highly qualified scientists and utilizes cutting edge technology for the analysis of diving air and mixed diving gases. The air quality laboratory at RPC is accredited by the Standards Council of Canada for the analysis of diving air and mixed gases to the requirements of the CAN/CSA Z275.2-15 standard. This standard requires that diving air and mixed gases be tested for safety and purity at least every six months.

Following a prompt analysis of your sample, RPC's air quality laboratory will provide a certificate of analysis which indicates the sample's conformance or non-conformance to the requirements of the standard. Furthermore, the laboratory analysts will provide a friendly reminder of when your certificate expires and will arrange a retest. This ensures that you, as our valued client, do not have to be concerned about your certificate expiring before a sample is retested. An example of RPC's certificate of analysis can be seen below.

### EXAMPLE REPORT Compressed Diving Air Analysis to CAN/CSA Standard Z275.2-15

Component	Allowable Maximum	Sample
Oxygen	20-22%	21%
Nitrogen and rare gases	78-80%	79%
Carbon Monoxide	3 ppm	< 2 ppm
Carbon Dioxide	600 ppm	< 2 ppm
Methane	10 ppm	2 ppm
Volatile Non-Methane Hydrocarbons	5 ppm	< 1 ppm
Volatile Halogenated Hydrocarbons	5 ppm	< 1 ppm
Oil, Particulates and Condensates	1 mg/m <sup>3</sup>	< 0.1 mg/m <sup>3</sup>
Dew Point (water)	-53 °C	-77 °C
Odour	Odour-free	None

**Based on the above analysis, the submitted sample MEETS the requirements of the Standard.**

#### Contact

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*RPC's Quality Management System is registered to ISO 9001:2008.*