rpc
SCIENCE & ENGINEERING

921 College Hill Rd. Fredericton, NB Canada E3B 6Z9
115 A Harrisville Blvd. Moncton, NB Canada E1H 3T3

# Compressed Diving Air and Mixed Gas Analysis

RPC'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 $mg/m^3$ | < 0.1 $mg/m^3$ |
| 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

Bryan Bourque
Supervisor, Compressed Air and Gases
Air Quality Services
Tel: 506.259.1419
Fax: 506.452.1395
bryan.bourque@rpc.ca

Compressed Air and Gases Laboratory
Tel: 506.452.1204
airquality@rpc.ca

*RPC's Quality Management System is registered to ISO 9001:2015.*