Tribo-Lab
FLUID ANALYSIS AND TRIBOLOGY SERVICES

VeneFilter
Absolute Filtration

EQUIPMENT ANALYSIS

Compressors

Increasing compressor *reliability* is vital to your *production.*

> Manufacturing, refrigeration and gas compression lines depend on compressor uptime. Our ***TRIBO-LABS*** tests reveal contamination and mechanical wear through the particles in the fluid.

There are several types of compressors: rotary, reciprocating, axial flow, centrifugal and screw, among others. Their purpose is to raise a gas's pressure by reducing its volume.

Compressors take in large amounts of air, dust and water droplets. Their lubricant must resist oxidation from high discharge temperatures and the constant presence of hot air. The main concern is airborne process contamination, dirt and water, which affect viscosity and cause oxidation.

Refrigeration compressors also suffer reduced viscosity from gas entrainment.

We recommend ***TRIBO 1*** as the basic routine test, or ***TRIBO 2***, which measures moisture by Karl Fischer with more precise values. These tests support predictive action or secondary tests such as MPC (Membrane Patch Colorimetry, ASTM D7843), which detects varnish.

TRIBO-LABS

The MPC test (ASTM D7843) detects ***varnish*** formation early.

How it *works*

01
Take the sample with the system running at operating temperature.

02
Fill out the TRIBO-LABS form for the corresponding test.

03
Send the sample to the laboratory for analysis.

04
TRIBO-LABS logs and analyzes the sample and generates an e-report.

05
You receive the report by email and review the recommendations.

48–72 h
Turnaround time once the sample is logged.

COMPRESSORS

TRIBO-LABS test packages

BASIC ROUTINE TEST

TRIBO 1 Basic industrial oil analysis test

Sample volume: 100 ml

- 24 elemental metals by ICP ASTM D5185
- Water % by crackle in-house method
- Viscosity at 40 °C or 100 °C ASTM D445
- Acid number ASTM D664
- Oxidation / Nitration ASTM E2412
- ISO particle count ISO 4406:99

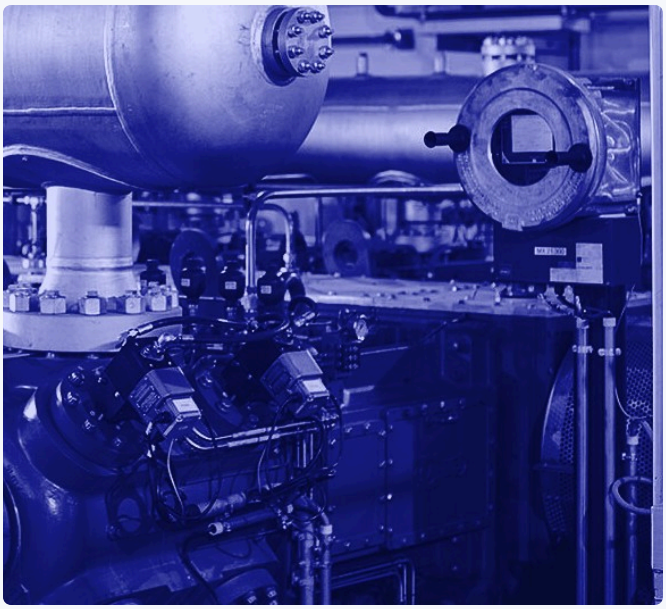
KARL FISCHER MOISTURE

TRIBO 2 Advanced industrial oil analysis test

Sample volume: 100 ml

- 24 elemental metals by ICP ASTM D5185
- Water % by Karl Fischer ASTM D6304C
- Viscosity at 40 °C or 100 °C ASTM D445
- Acid number ASTM D664
- Oxidation / Nitration ASTM E2412
- ISO particle count ISO 4406:99

Increasing compressor reliability is *vital* to improving production.



Standard *monitoring frequency*

500 h

Compressors

Standard frequency for screw, centrifugal, reciprocating, turbo and lobe compressors. Our specialists will recommend the ideal monitoring frequency based on the industry and application. As a general rule, the frequency shown is the standard parameter.

For more information, contact us:

NORTH AMERICA
+1 (786) 497.61.00 · (786) 537.49.71

SOUTH AMERICA
+58 (414) 439.53.03 · (424) 473.04.59
(414) 342.51.61

EUROPE
+34 (658) 94.80.60 · +34 658 408 109