

EQUIPMENT ANALYSIS

Hydraulics

Hydraulic lubricant analysis is essential to **prevent failures.**

Lubricant analysis is an essential tool for maintaining your hydraulic systems: with **TRIBO-LABS** you improve production, increase uptime and minimize repairs.

A clean lubricant is essential in hydraulic systems. They run with extremely tight tolerances and high pressures, which makes them susceptible to small amounts of contamination.

Solid wear particles, water, gases and high temperatures are the main causes of deterioration. Most hydraulic failures are caused by water or solid contamination of the fluid.

Water contamination is the number 1 enemy of hydraulic lubricant: it breaks down the lubricant, raises acidity, depletes basic additives and corrodes the system.

Whatever the application, parts of the equipment are constantly exposed to the environment, which can cause irregular operation and shorten lubricant life.

We recommend a routine testing program with the **TRIBO 1** package. For systems more sensitive to moisture we recommend **TRIBO 2**, which includes the Karl Fischer test for precise moisture results in % or ppm.

TRIBO-LABS

Water contamination is the number 1 enemy of hydraulic lubricant.

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.

TRIBO-LABS test packages



BASIC ROUTINE

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

MOISTURE-SENSITIVE SYSTEMS

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

Hydraulic lubricant analysis is **essential** to prevent failures in your systems.



Standard **monitoring frequency**
700 h

Hydraulic systems

Standard frequency for industrial hydraulic systems. 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,
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