

EQUIPMENT ANALYSIS

Gearboxes

Increase your equipment's **reliability** with the right lubricant **analysis**.

Gear system failures can sharply reduce operating time or stop production. **TRIBO-LABS** supports you with the ideal monitoring program for your equipment.

Gearboxes are interconnected with other internal and external machine components: a faulty gearbox can reduce operating time or stop production, and repairs are very costly.

Constantly exposed to friction and heat, fluid properties break down over time under stress, solid contaminants, moisture and high temperatures.

The recommended package is **TRIBO 1**, which confirms that viscosity, acidity (TAN) and additives are in proper condition for the equipment's speed and load.

If contamination and lubricant properties are in ideal condition, wear may be caused by vibration, possibly from misalignment. Our wear-metal reports guide your maintenance department.

TRIBO-LABS

Gearbox and transmission failures carry a very high **repair cost**.

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

ROUTINE PROGRAM

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

Catch problems early to cut maintenance costs and **extend** the life of the lubricant and the equipment.



Standard *monitoring frequency*

500 h

Gear systems

Standard frequency for gear reducers, transmissions and gear 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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