



GEARS BOX

“Gear systems Failures can decrease operating times or stop production. Gearboxes and transmissions are expensive to be repair. TRIBOLAB[®], through our oil analysis packages, will support you with the ideal monitoring program for your equipment, serving as a guide for the maintenance department.”

Gearboxes are interconnected with other internal and external components of the machinery; a defective gearbox can reduce operating times or stop production. Gearbox and transmission failures have a very high cost to repair.

Because they are constantly exposed to friction and heat, fluid properties break down over time, under stress, solid contaminants, moisture, and high temperatures. The recommended test package for these applications is **TRIBO 1**, it can confirm that the lubricant viscosity, acidity (TAN) and additives are in use condition for the speed and load of the equipment.

In the case that the contamination and the lubricant properties are in ideal conditions, the wear can be caused by vibrations in the equipment.

TRIBOLAB[®], through our oil analysis packages, will support you with the routine monitoring program and information on wear metals that provide guidance to the maintenance department.

“TRIBOLAB[®],
we are allies
to improve your production.”



“Increase
Equipment Reliability
with Proper
Lubricant Analysis.”



Take a sample of the fluid, with the system operating in normal conditions.



Fill in the Tribolab® form corresponding to the Test it belongs to.



Send sample to Tribolab® to be analyzed.



Tribolab® records and analysis the sample, generating an e-report.



Tribolab® sends you an email report with the results. Customer evaluates recommendations.



Response time is 24 to 48 hr. Once the sample is registered in our laboratories.

"If problems are detected on time, reduce maintenance costs, will extend the life of the lubricant and increase the life expectancy of the equipment."

TRIBO 1: Basic Industrial Oil Analysis Test.
Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Crackle (Internal Method Tribolab)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

Standard Monitoring Frequency

The following is the standard monitoring frequency for gearboxes, transmissions, and gear systems.

Gear Systems: Every 500 hr.

“Experts recommend the ideal monitoring frequencies, depending on the industry and application. In general, the frequency shown above is set as a standard parameter”.

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