

Analysis Service Of Fluids & Tribology

Lubricant Monitoring | Fats | Refrigerants | Diesel
Reports - Trends - Proactive Maintenance - Equipment



“ **Tribo-Labs™** offers you the fluid analysis and monitoring service that adapts to what each industry requires.”



& Data Collection & Evaluation of **Tribological systems**

To carry out this program we have the field consulting service, formed by a group of engineers and technicians trained to collect data from the tribological systems that are involved in the production processes. Our staff establishes a plan for obtaining information under ASTM procedures; ISO in the evaluation or “Floor Mapping” of their equipment, fleets or installed units, thus feeding our systems to manage their fluids with our laboratories certified under A2LA (AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION ISO/IEC 17025:2017).



Tribo-Labs™ supplies all implements for the development of the lubricant and diesel analysis and monitoring program. These consist of sampling accessories, containers, portable laboratory units, connections, hoses, pumps and labels.



Tribo-Labs™ provides training to its preventive maintenance and reliability personnel, offering theoretical-practical training at its facilities regarding sampling of lubricants, coolants, greases, and diesel fuel, equipment data collection, etc.



Tribo-Labs™ manages its teams effectively, supporting department management. maintenance and reliability. Tribological reports are issued that indicate or anticipate failures, equipment wear, physicochemical changes in the fluids and filter performance.



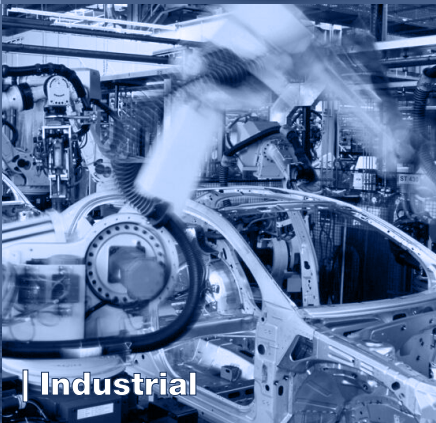
| Miner



| Transport



| Marine



| Industrial



| Industrial Agriculture



| Metallurgical



| Pulp and Paper



| Food and drinks



| Thermal Oils



| Wind power



“ Tribo-Labs™
Perform tests that
meet standards:
ASTM, ISO, SAE, NAS,
among other.”

Analysis Services Lubricants & Diesel

Tribo-Labs™ has a variety of services applied to the industrial sector such as analysis of greases, lubricants, coolants, diesel fuel, thermal oils, with which tribological systems are controlled and monitored, increasing the reliability of your production lines. Another benefit is that it manages to reduce fluid consumption, reducing the impact of waste on the environment.

Tribo-Labs™ specializes in the analysis of lubricants, coolants and diesel fuel for applications such as diesel, gasoline and gas engines. Some of the brands we have worked with are CATERPILLAR, DETROIT DIESEL, CUMMINS, VOITH, MTU, among others. We also have extensive experience in industrial applications, taking into account the critical levels of fluids and the recommendations of manufacturers of rotating equipment such as turbogenerators, turbo-pumps, hydraulic systems and gearboxes of recognized brands such as: GENERAL ELECTRIC, SIEMENS-WESTINGHOUSE, SOLAR TURBINE, REXROTH, VICKERS, VALMIT, CATERPILLAR, FLENDER, among others.



**Know all the
Markets
TRIBO-LABS™**



“ Tribolabs™
Perform standards
compliant testing
ASTM, ISO, SAE, NAS,
among others. ”

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 (ISO4406.99)

TRIBO 3: Advanced Test for Analysis of Industrial Oils “TURBINES”.

Sample volume: 1 L

- 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 (ISO4406.99)
- RPVOT (ASTM D2272)
- Water separability characteristics
- RULER (LSV -% phenols/amines) (ASTM D6971)
- Foam (Tribolab internal method)
- Copper corrosion 3 hours at 100°C (ASTM D130)
- Flashpoint (ASTM D92)
- Color (ASTM D6045)
- Viscosity index (ASTM D2270)
- Pour point (Tribolab internal method)
- Density at 15°C (ASTM D7777)

TRIBO-LABS TEST PACKAGES

TRIBO 4: Engine Oil Analysis Test.

Sample volume: 100 ml

- 24 Elemental metals by ICP (ASTM D5185)
- Viscosity @ 100°C (ASTM D445)
- Fuel dilution % (ASTM D7593)
- % soot (ASTM E2412)
- % water per Crackle (Tribolab internal method)
- Base number (ASTM DA4739)
- Oxidation/Nitration (ASTM E2412)

TRIBO 5: Basic Diesel Fuel Analysis Test.

Sample volume: 1 L

- Elemental analysis by ICP (ASTM D5185)
- Water and sediment (ASTM D2709)
- Bacteria, fungi and mold (maker)
- % soot (ASTM E2412)
- ISO Particle Count (ISO4406.99)
- Pensky-Marten flash point (ASTM D3828)

TRIBO 8: Coolant Liquid Analysis Test.

Sample volume: 100 ml

- Visual (color, oil and/or fuel contamination, magnetic/non-magnetic foam precipitation and odor) (Tribolab internal method)
- pH (ASTM D1287)
- Glicol% (ETHYLENE OR PROPYLENE)
- Freezing point (ASTM D3321)
- Boiling point (Tribolab internal method)
- Nitrite (Tribolab internal method)
- TDS (Total dissolved solids)
- Specific Conductance (Tribolab internal method)
- SCA # (Tribolab internal method)
- Total hardness (Tribolab internal method)

TRIBO 9: Filter residue analysis test.

Sample Volume: Filter Element

- Elemental metals (24) of ICP (ASTM D5185)
- Acid digestion elemental analysis (ASTM D5198)
- Gravimetric solids (Tribolab internal method)
- Micropatch (Tribolab internal method)
- Analytical ferrograph (ASTM D7690)

