

# Power Generation



**TRIBOLAB®**  
“will help you  
Increase  
Profitability  
of your company.”



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.

The analysis of lubricants, greases and refrigerants. Today a primary factor for the optimal performance of power generation plants, it's necessary to monitor and control fluids. This allows to increase and improve the reliability of the generators of the different power plants such as thermal, wind, hydroelectric, oceanic. It has been demonstrated that 70% of rotary system failures are due to contaminated lubricants and fluid monitoring and control is necessary to increase profits and profitability for companies. At **TRIBOLAB®**, laboratories, we will help you identify which is the ideal test for your equipment, and we will issue you reports with recommendations and solutions, to improve reliability and save a lot of money.

## Benefits of Fluid Analysis in Industry

- ✓ Maintenance of fluid quality.
- ✓ Increase in product production.
- ✓ Increased Uptime Equipment.
- ✓ Improved reliability of assets.
- ✓ Equipment life extension.
- ✓ Increased profitability.
- ✓ Reduction of unscheduled stops.



www.tribo-labs.com

For more information you can contact us via email  
info@tribo-labs.com

## Diesel Engine & Generators

### DIESEL FUEL ANALYSIS PACKAGES

#### 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 (Manufacturer)
- Soot % (ASTM E2412)
- ISO Particle Count (ISO4406.99)
- Pensky-Marten Flash Point (ASTM D3828)

#### TRIBO 6: Advanced Diesel Fuel Analysis Test. Sample volume: 1 L

- Elemental Analysis by ICP (ASTM D5185)
- Pour Point (ASTM D7346)
- Water and Sediment (ASTM D2709)
- Bacteria, Fungi and Mold (Manufacturer)
- Thermal Stability (ASTM D6468)
- Viscosity (ASTM D445)
- PPM Sulfur (ASTM D7220)
- FBT (ASTM D2068)
- Flash Point (ASTM D3828)
- Cetane Index (ASTM D976)
- Cloud Point (ASTM D7689)
- Distillation (ASMT D7345)
- ISO Particle Count or Particle Quantifier (ISO4406.99)
- COPPER STRIP CORROSION (ASTM D130)

### OIL ANALYSIS PACKAGE

#### TRIBO 4: Engine Oil Analysis Test. Sample volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- Viscosity @ 100°C (ASTM D445)
- Fuel Dilution % (ASTM D7593)
- % Soot (ASTM E2412)
- % Water by Crackle (Internal Method Tribolab)
- Base Number (ASTM DA4739)
- Oxidation / Nitration (ASTM E2412)

### COOLANT ANALYSIS PACKAGES

#### TRIBO 8: Coolant Analysis Test. Sample Volume: 100 ml

- Visual (color, oil and/or fuel contamination, foam magnetic/non- magnetic precipitation and odor) (Internal Method Tribolab)
- pH (ASTM D1287)
- Glycol % (ETHYLENE OR PROPYLENE)
- Freeze Point (ASTM D3321)
- Boil Point (Internal Method Tribolab)
- Nitrite (Internal Method Tribolab)
- TDS (sólidos disueltos totales)
- Specific Conductance (Internal Method Tribolab)
- SCA # (Internal Method Tribolab)
- Total Hardness (Internal Method Tribolab)

## Turbines

#### TRIBO 2: Advanced Industrial Oil Analysis Test. Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Karl Fischer (ASTM D6304C)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

#### TRIBO 3: Advanced Industrial Oil Analysis Test "TURBINES". Sample Volume: 1 L

- 24 Metals by ICP (ASTM D5185)
- Viscosity @ 40°C (ASTM D445)
- Acid Number (ASTM D664)
- % Water by Karl Fisher (ASTM D6304C)
- ISO Particle Count (ISO4406.99)
- Oxidation/Nitration (ASTM E2412)
- RPVOT (ASTM D2272)
- Water Separability Characteristics
- RULER (LSV - % phenols/amines) (ASTM D6971)
- Foam (Internal Method Tribolab)
- Cooper corrosion 3 hr @ 100C (ASTM D130)
- Flash Point (ASTM D92)
- Color (ASTM D6045)
- Viscosity Index (ASTM D2270)
- Pour Point (Internal Method Tribolab)
- Density @ 15C (ASTM D7777)

## Hydraulic Systems & Compressors

#### 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)

#### TRIBO 2: Advanced Industrial Oil Analysis Test. Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Karl Fischer (ASTM D6304C)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

## Gear Systems

#### 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)

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