

Marine



TRIBOLAB[®]
“Increase
Reliability
of your Marine equipment.”



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.

In the marine industry diesel engines, gear systems and hydraulics are expected to operate for long periods of time at full load capacity under extreme, often uncontrollable conditions. High performance expectations, a variety of operating environments and the constant presence of water make marine equipment very different from equipment on land.

Analysis of lubricants, coolants and fuels is vital because these units are constantly exposed to the damaging effects of fresh or salt water, which are sometimes used to cool operating systems.

Fluid monitoring and control can extend equipment life and identify system problems before they turn into costly failures.



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)

Gear Systems & Pumps

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)

Azimuth Systems

TRIBO 2: Advanced Industrial Oil Analysis Test.

Sample Volume: 100 ml

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

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 (IASTM D6304C)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

Hydraulic Winches

TRIBO 2: Advanced Industrial Oil Analysis Test.

Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Karl Fischer (IASTM D6304C)
- 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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