Tribo-Lab
FLUID ANALYSIS AND TRIBOLOGY SERVICES

VeneFilter
Absolute Filtration

MARINE MARKET

Marine

Increase the *reliability* of your *marine equipment.*

Engines, gears and hydraulics on board under control, backed by **TRIBO-LABS**, our lubricant analysis laboratory.

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

Analyzing lubricants, coolants and fuels is vital, because these units are constantly exposed to the harmful effects of fresh or salt water, which is sometimes also used to cool the same systems.

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



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.

24–48 h
Turnaround time once the sample is logged.

Fresh or salt water, *always present*

Water is the main enemy of fluids on board. Routine analysis catches contamination, wear and degradation early and keeps your fleet sailing.

Contact us
info@tribo-labs.com

RIF J-30915416-8
www.tribo-labs.com

MARINE MARKET

TRIBO-LABS test packages

Diesel engines & generators

DIESEL FUEL ANALYSIS

TRIBO 5 Basic diesel fuel test

Sample volume: 1 L

- Elemental analysis by ICP ASTM D5185
- Water and sediment ASTM D2709
- Bacteria, fungi and mold manufacturer
- ISO particle count ISO 4406:99
- Pensky-Martens flash point ASTM D3828

TRIBO 6 Advanced diesel fuel 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
- Sulfur (ppm) ASTM D7220
- FBT ASTM D2068
- Flash point ASTM D3828
- Cetane index ASTM D976
- Cloud point ASTM D7689
- Distillation ASTM D7345
- ISO particle count ISO 4406:99
- Copper strip corrosion ASTM D130



OIL ANALYSIS

TRIBO 4 Engine oil test

Sample volume: 100 ml

- 24 elemental metals by ICP ASTM D5185
- Viscosity at 100 °C ASTM D445
- Fuel dilution % ASTM D7593
- Soot % ASTM E2412
- Water % by crackle in-house method
- Base number ASTM D4739
- Oxidation / Nitration ASTM E2412

COOLANT ANALYSIS

TRIBO 8 Coolant test

Sample volume: 100 ml

- Visual: color, oil and/or fuel contamination, precipitate, odor, foam, magnetic / non-magnetic in-house method
- pH ASTM D1287
- Glycol % (ethylene or propylene)
- Freezing point ASTM D3321
- Boiling point in-house method
- Nitrite in-house method
- TDS (total dissolved solids)
- Specific conductance in-house method
- SCA # in-house method
- Total hardness in-house method

Gears & pumps

TRIBO 1 Basic industrial oil 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

Azimuth systems

TRIBO 2 Advanced industrial oil 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 ISO 4406:99

Hydraulic systems & compressors

TRIBO 1 Basic industrial oil 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

TRIBO 2 Advanced industrial oil 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 ISO 4406:99

Hydraulic winches

TRIBO 2 Advanced industrial oil 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 ISO 4406:99

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