



## TEST CABINET FUEL AND LUBE OIL

Portable laboratory for efficient and exact condition monitoring of fuel, lube and hydraulic oil in engines.

### FEATURES & BENEFITS

- Various tests for comprehensive oil condition assessment
- Easy and quick test procedures
- Accurate and efficient test results
- Compact and fastenable to a wall
- Built-in lighting and test desk

#### PRODUCT DESCRIPTION

The TEST CABINET FUEL AND LUBE OIL is a comprehensive portable laboratory specifically designed to conduct an extensive range of various test analyses on-site in order to monitor effectively the condition of fuels, lubricating and hydraulic oils in the engine systems. The test devices included in the test cabinet allow measuring the required oil properties on a regular basis and in simple and quick test procedures. As the end results can be assessed directly after the test, any occurring changes in the oil condition are immediately observable, and the respective adequate measures regarding maintenance and services can be taken at the exact time when it is necessary.

#### Devices included in the basic version allow testing for:

- Water-in-oil (WIO)
- Base Number (BN)
- Viscosity and density
- Viscosity (through comperator)
- Spot check (soot contamination)
- Salt check (salt water contamination)
- Compatibility

The TEST CABINET FUEL AND LUBE OIL can be customised in order to suit the required applications in a specific field.



For product characteristics and for the nature of special risks and safety advice consult our MSDS.  
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Examples of customisation are:

- Basic Version + Option I: addition of Test Kit Flash Point and Test Kit Pour Point
- Basic Version + Option II: addition of Test Kit Cat Fines and Test Kit Total Iron

The cabinet can also be customised for exclusively testing lube and hydraulic oil or bunker fuel.

## PARAMETERS TO MEASURE

### *Basic version:*

#### **Water-in-oil**

- Measuring range: 0 - 1.0 vol.% H<sub>2</sub>O
- Measuring time: about 20 min.
- Accuracy: ± 3%

#### **Base Number**

- Measuring range: 0 - 100 BN
- Measuring time: about 20 min.
- Accuracy: ± 1BN

#### **Oil viscosity**

- Measuring range: max. lube oil
- Measuring time: about 3 min.

#### **Heated electronic falling ball viscosity**

- Measuring range:
  - Viscosity: 1 - 999 mm<sup>2</sup>/s
  - Density: 0.82 - 1.05 g/ml
- Measuring time: about 15 min.
- Oil sample: approx. 200 ml
- Accuracy: ± 3%

#### **Saltwater contamination**

- Measuring range: go / no go
- Measuring time: about 10 min.

#### **Spot test**

- Measuring range: all lube oils
- Measuring time: about 1 min.

#### **Compatibility check**

- Measuring range: all heavy fuel oils
- Measuring time: about 10 min.

### *Option I:*

#### **Test Kit Flash Point**

- Measuring range: 25 - 200°C
- Measuring time: about 15 min.
- Accuracy: ± 2% <100°C, ± 6% >100°C

#### **Test Kit Pour Point**

- Measuring range: -20°C to +30°C
- Measuring time: about 10 min.
- Accuracy: ± 2°C

### *Option II:*

#### **Test Kit Cat Fines**

- Measuring time: about 15 min.
- Up to 8 simultaneous measurements possible
- Visually quantifiable

#### **Test Kit Total Iron**

- Measuring range: 15/20 - 1100 mg/kg (ppm)
- Measuring temperature: 70°C
- Measuring time: about 15 min. for two cylinder drain oil samples
- Measurement method: chroma meter with LED transmitted light source
- Accuracy: ± 20 mg/kg (ppm)

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