



OilLab 510 Foaming Tester



ASTM D892
ASTM D6082
DIN 51566
IP 146
ISO 6247

Subject

Foaming characteristics of lubricating oils: this test method covers the determination of the foaming characteristics of lubricating oils at 24°C and 93.5°C.

Means of empirically rating the foaming tendency and the stability of the foam are described.

Main Features

- Four test position heated air bath for measuring the foaming tendencies of lubricating oils in the temperature range of +20 to +150°C.
- Compact and robust analyzer painted with epoxy paint.
- Automatic analyser as for ASTM D892 and ASTM D6082.
- The electronic board grant the digital display of the signals with a resolution of 0.01 and precision of $\pm 0.1^\circ\text{C}$.
- Long temperature probe is positioned for digital control and test sample temperature and precise temperature control during the foaming process.
- 4 independent micro pump and 4 independent digital airflow meter indicating mass air flow with automatic flow controllers are used for precisely measuring and controlling the amount of air delivered to the air diffuser.
- The airflow is controlled at either a rate of 94 or 200 ± 5 mL/min, depending if testing by ASTM D892 or D6082, respectively.
- The parameters are displayed during the test on the touch screen allows the operator selection and full adjustment of all test parameters.

- The labLink software include operator name , filename, 4 independent analysis, diagnostic and calibration menu.
- A multi-pane insulated window allows full view of the test cylinder for observation of the foam.
- The unit is supplied with the built in cooling system made by integrated Peltier modules (LAB-510-18-01) able to maintain the chamber temperature below +24°C.
- Internal rack able to accommodate 4 test cylinder with warm light
- The 7" PC with resolution of 480 x 800, 1 x USB port, equipped with the Lablink software with both ASTM D892 and D6082 test methods, for automatic start /stop soak time, audible alarm after completing soak time.
- Precision as per test method requirements: $\pm 0.5^\circ\text{C}$.
- Equipment precision: $\pm 0.1^\circ\text{C}$.
- Temperature display definition: 0.01°C.
- Max temperature as per test method requirements: 150°C.
- Equipment maximum temperature: 180°C, in controlled lab temperature environment.

Integrated Touch Screen Panel PC

- TFT/LCD 7"
- Resolution 480 x 800
- 1 USB port

Software

- Real time display of all the analytical parameters
- Automatic calibration of each temperature probe by means of the calibration decade box
- Storage of the data referred to the calibration
- Last calibration date referred to each single probe displayed
- Access to all analogue and digital signals (inlet and outlet) in order to verify their functioning.

Electrical Supply

- 220V $\pm 15\%$ / 50 to 60 Hz
- 115V $\pm 15\%$ / 60 Hz

Dimensions

- width 75 cm
- depth 61 cm
- height 61 cm

Weight

- 50 kg

Accessories

- LAB-101-883: diffuser stone (not certified)
- LAB-101-887: Mott metal cylindrical diffuser (tested and verified) – ASTM D6082

Spare Parts

- LAB-101-883: diffuser stone (not certified)
- LAB-101-880: graduated cylinder 1000 ml
- LAB-101-882: rubber stopper, pack of 2 pcs.
- LAB-140-002: PT100 probe
- LAB-150-015: static relay
- LAB-101/08-66: thermal fuses