

# TANNAS CO.

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*"Tomorrow's Instruments... Today"™*

## SPECIFICATIONS

### Thermo-oxidation Engine Oil Simulation Test

### TEOST MHT®

#### Principle:

- Moderately High Temperature test that simulates the effect of engine operating conditions on the oxidation and deposit-forming tendencies of engine oils, especially in the ring belt and piston ring areas of the engine.
- Oil sample treated with catalyst is pumped over a heated coiled Depositor Rod forming associated deposits. The weight of the Depositor Rod after the test is subtracted from its pre-test weight and added to the particulate weight collected by filtering the oil remaining. The results are reported in milligrams.

#### Dimensions:

- Bench-top: 13"(w) x 19.5"(d) x 22"(h) or (33 x 50 x 56 cm), ~65 lbs. (30 kg)

#### Voltage:

- 120 VAC, Single Phase, 5 Amp., 50/60 Hz. (Also available in 220 VAC)

#### Test Parameters:

- Operating Temperature: 285°C
- Test Time: 24 hours
- Sample Volume: 8.5 g ( $\pm 0.001$  g)
- Depositor Rod: Precision manufactured steel with specially treated wire winding
- Pump Rate: 0.25 g/min.
- Dry Air Flow Rate: 10 mL/min
- MHT Catalyst: 0.0131 g/g of Oil

#### Safety:

- Current Limiting Fuses
- Over-temperature Cut-out Fuse
- Protective Heat Shield

#### Test Procedures (Specifications):

- ASTM D 7097
- ILSAC GF-3, GF-4 - 'High-Temperature Deposits'
- API SL, SM category, ASTM D 4485
- Included in DaimlerChrysler Factory-Fill Specification

#### Special Features:

- Clear Glass Mantle for easy viewing of depositor area during test.
- Ability to collect the volatilized material for further analysis and investigation.
- MHT Conversion Kits available for older TEOST 33C cabinet designs.



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