



Thin Film Oxygen Uptake Test

ASTM D 4742 evaluates the oxidation stability of engine oils used in gasoline automotive engines. TFOUTs, run @ 160°C, utilize a high pressure reactor pressurized with oxygen along with a metal catalyst package, a fuel catalyst, and water in a partial simulation of the conditions to which an oil may be subjected in a gasoline combustion engine.

Typical Test Conditions:

- Temperature:
160 +/- 0.3°C
- Speed:
100 +/- 5 rpm
- Duration:
 - This test is terminated at rapid pressure decrease or 500 minutes maximum.
 - Pressure: 90 psig

Related Test Methods:

- ASTM D 2272 RBOT



DE135753



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The interface between the transducer and TFOUT bomb has been improved to prevent bomb leakage and thread wear. The TFOUT bath drive mechanism has been improved to reduce failure and downtime. Temperature, for both baths, is now controlled digitally using the newest RTD technology.