**Test Method D7528**
**Bench Oxidation of Engine Oils by ROBO Apparatus**
Version

Conducted For

| | |
|---|---|
| | **V = Valid** |
| | **I = Invalid** |

| | |
|---|---|
| | **NR = Non-Reference Test Oil** |
| | **RO = Reference Oil Result** |

| Test Number | |
|---|---|
| **Instrument ID:** | **Test Run Number:** |

| | |
|---|---|
| Date Completed: | Time Completed: |
| Oil Code: | |
| Alternate Oil Codes: | |

In my opinion this test          been conducted in a manner in accordance with the Test Method D7528. The remarks included in this report describe the anomalies associated with this test.

Submitted By:

_____
Testing Laboratory

_____
Signature

_____
Typed Name

_____
Title

Test Report Cover

# Test Method D7528
## Bench Oxidation of Engine Oils by ROBO Apparatus

**Form 2**

| Oil Code: |
|---|
| Lab Sample Code: |

| Testing Laboratory: | TMC Oil Code: |
|---|---|
| Date Completed: | Time Completed: |

| Instrument ID: | |
|---|---|
| Test Run Number: | Run Number of Last TMC Calibration: |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date: |

| Operational Parameters | |
|---|---|
| Test Method-Version | |
| Vacuum Pump Serial Number | |
| Vacuum Control Valve Total Number of Turns from Open to Close (to the nearest quarter turn), revolutions | |
| Vacuum Control Valve Set Point at Time of Last TMC Calibration (number of turns from open, to the nearest quarter turn), revolutions | |
| Vacuum Control Valve Set Point for This Test (number of turns from open, to the nearest quarter turn), revolutions | |
| SAE J300 Engine Oil Viscosity Classification | |
| Volatiles at End of Test, mass % | |

| Test Results | |
|---|---|
| New Oil D445 Kinematic Viscosity @ 40$^o$C, mm$^2$/s | |
| Aged Oil D445 Kinematic Viscosity @ 40$^o$C, mm$^2$/s | |
| Percent Increase Kinematic Viscosity @ 40$^o$C After Aging, % | |
| D5293 Cold Crank Simulator Test Temperature, $^o$C | |
| Aged Oil D5293 Cold Crank Simulator Apparent Viscosity, mPa-s | |
| D4684 Mini-Rotary Viscometer Test Temperature, $^o$C | |
| Aged Oil D4684 Mini-Rotary Viscometer Apparent Viscosity, mPa-s | |
| Aged Oil D4684 Yield Stress, Pa | |

Summary of Results

**Test Method D7528**
**Bench Oxidation of Engine Oils by ROBO Apparatus**

**Form 3**

| | |
|---|---|
| Oil Code: | |
| Lab Sample Code: | |

| | |
|---|---|
| Testing Laboratory: | TMC Oil Code: |
| Date Completed: | Time Completed: |

| | |
|---|---|
| Instrument ID: | |
| Test Run Number: | |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date: |

**Out-of-Limit Data and Time, Test Modifications and Comments**

| Number of Comment Lines | | |
|---|---|---|
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**Comment Summary**