

**Report Forms**

**TEST METHOD D5480  
ENGINE OIL VOLATILITY BY GAS CHROMATOGRAPHY TEST**

**VERSION**      20020201

TEST METHOD <sup>A</sup> *METHOD*  
**CONDUCTED FOR**

*TSTSPON1*

*TSTSPON2*

|                 |             |
|-----------------|-------------|
| <i>LABVALID</i> | V = VALID   |
|                 | I = INVALID |

| <b>Test Number</b>             |  |
|--------------------------------|--|
| Instrument ID: <i>INSTRUID</i> | Instrument Run Number: <i>INSTRUNO</i> |

|  |                          |                 |                 |
|--|--------------------------|-----------------|-----------------|
| Date Completed: <i>DTCOMP</i>              | EOT Time: <i>EOTTIME</i> |                 |                 |
| Oil Code: <sup>B</sup> <i>CMIR/OILCODE</i> |                          |                 |                 |
| Alternate Codes:                           | <i>ALTCODE1</i>          | <i>ALTCODE2</i> | <i>ALTCODE3</i> |

In my opinion this test *OPVALID* been conducted in a manner in accordance with the Test Method D5480 and the appropriate amendments through the information letter system. The remarks included in this report describe the anomalies associated with this test.

<sup>A</sup> D5480

<sup>B</sup> CMIR or Non-reference Oil Code

SUBMITTED BY: \_\_\_\_\_ *SUBLAB*  
Testing Laboratory

\_\_\_\_\_ *SUBSIGIM*  
Signature

\_\_\_\_\_ *SUBNAME*  
Typed Name

\_\_\_\_\_ *SUBTITLE*  
Title

**TEST METHOD D5480  
ENGINE OIL VOLATILITY BY GAS CHROMATOGRAPHY TEST  
FORM 2  
RESULT SUMMARY SHEET**

|   |  |   |
|---|--|---|
| Test Lab: <i>LAB</i>                    | <u>Equipment</u>   |   |
| Test Method: <sup>A</sup> <i>METHOD</i> | Manufacturer: <i>MANUFACT</i>                              |   |
| Date Completed: <i>DTCOMP</i>           | Model: <i>MODEL</i>  |   |
| EOT Time: <i>EOTIME</i>                 | Laboratory Oil Code: <i>LABOCODE</i>                       |   |
| Instrument ID: <i>INSTRUID</i>          | Instrument Run No.: <i>INSTRUNO</i>                        |   |
| Oil Code: <i>CMIR/OILCODE</i>           |  |   |
| TMC Industry Oil Code: <i>IND</i>       | Date of Last TMC Calibration: <sup>B</sup> <i>DTLSTCAL</i> | Date Calibration Expiration: <sup>B</sup> <i>DTCALEXP</i> |

**Daily Calibration**

Daily Check Sample ID: *CALOILID* Calibration Date: *DTCAL*  
 Calibration Oil % Volatized @ 371°C (700°F): *CALVOL* Calibration Time: *CALTIME*

**Injector** **Carrier Gas**

Initial Injector Temperature °C: *ININJTMP* Type (H, He, N): *CARTYPE*  
 On-Column? (Y or N): *IONCOL* Flow Rate, ml/min: *CFLWRTE*  
 Temperature Programmed? (Y or N): *TMPPRO*  
 Type of Column (Packed or Open): *TYPECOL*

**Packed Column**

Support Material: *SUPMAT*  
 Stationary Phase Material: *STAPHPAK*  
 Percent Loading: *PERLOAD*  
 Column Length, meters: *COLTHPAK*  
 Column Diameter, mm: *COLDIAMP*  
 Resolution: *RESOLPAK*

**Open Column**

Stationary Phase Material: *STAPHOPN*  
 Film Thickness, µm: *FILMTH*  
 Column Length, meters: *COLTHOPN*  
 Column Diameter, mm: *COLDIAMO*  
 Resolution: *RESOLOPN*

**Temperature Program**

Initial Temperature, °C: *INITMP*  
 Initial Hold Time, min: *INIHLDTM*  
 Temperature Ramp, °C/min: *TMPRAMP*  
 Oven Track (Y or N): *TMPOVTCK*  
 Final Temperature, °C: *TMPFNL*  
 Final Hold Time, min: *HLDTMFNL*

**Sample Preparation (D5480 only)**

Sample Weight, g: *SWGHT*  
 Internal Standard Weight, g: *SISTDWT*

**Sample Injection**

Volume, µl: *VOLSI*  
 Solvent: *SOLSI*  
 Sample Concentration, %: *SCONSI*  
 Autosampler? (Y or N): *AUTOSI*

**Detector**

Detector Type: *DETYPE*  
 Temperature, °C: *TMPDET*

**Software**

Commercial Product? (Y or N): *COMPROD*  
 Name of Commercial Product: *COMNAME*

**Relative Response (n - C<sub>10</sub> = 1):**

n - C<sub>20</sub>: *RELRR20*  
 n - C<sub>30</sub>: *RELRR30*  
 n - C<sub>40</sub>: *RELRR40*

**Sample % Volatized @ 371°C (700°F):**

*SAMPVOLM/SAMPVOLA*  
 (Mass % for D5480)

<sup>A</sup> D5480 or D6417

<sup>B</sup> Report for non-reference oils only. Instrument calibration period is 90 days from the EOT date of the last successful instrument calibration using a TMC blind reference oil.

**TEST METHOD D5480  
ENGINE OIL VOLATILITY BY GAS CHROMATOGRAPHY TEST  
FORM 3  
COMMENTS**

|   |                               |
|---|-------------------------------|
| Test Lab: <i>LAB</i>                          | Test Method: <i>METHOD</i>    |
| Test Number <i>INSTRUID</i> / <i>INSTRUNO</i> | Oil Code: <i>CMIR/OILCODE</i> |

OUT-OF-LIMIT DATA AND TIME, TEST MODIFICATIONS AND COMMENTS

| Number of Comment Lines | <i>TOTCOM</i> |  |
|-------------------------|---------------|--|
| <i>OCOMR001</i>         |               |  |