### ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Test Report Cover

Version Procedure <sup>A</sup> Conducted For

V = Valid I = Invalid

|  |                                     | R = Non-Referenc  |        |          |                 |                |           |
|--|-------------------------------------|-------------------|--------|----------|-----------------|----------------|-----------|
|  | RO = Reference Oil Result           |                   |        |          |                 |                |           |
|  |                                     | Test 1            | Numbe  | r        |                 |                |           |
| Instrument II                            | ):                                  | Test F            |        |          |                 |                |           |
|  |                                     |                   |        |          |                 |                |           |
| <b>Date Complet</b>                      | ed:                                 |                   |        |          | Time Complet    | ed:            |           |
| Oil Code                                 |                                     |                   |        |          |                 |                |           |
| Formulation/S                            |                                     | 1                 |        |          |                 | T              |           |
| Alternate Cod                            | les:                                |                   |        |          |                 |                |           |
|  | Test Method and included in this re | the appropriate a | amendi | ments tl | hrough the info |                |           |
| B = Non-Wo<br>C = Selby-N<br>D = Noack S | oack                                | Submitted By:     |        |          |                 | Testing Labora | atory     |
|  |                                     |                   |        |          |                 | Signa          | <br>iture |
|  |                                     |                   |        |          |                 | Typed N        | lame      |
|  |                                     |                   |        |          |                 |                | Title     |

### **ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils** By The Noack Method Form 2 **Summary of Results**

| Oil Code:                     |                                  |
|-------------------------------|----------------------------------|
| Lab Sample Code:              |                                  |
|                               |                                  |
| Testing Lab:                  | TMC Reference Oil ID:            |
| <b>Date Completed:</b>        | Time Completed:                  |
|                               |                                  |
| Instrument ID:                |                                  |
| Test Run:                     |                                  |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date: |
| Test Method-Version           | Procedure <sup>A</sup>           |
| Equipment                     | Crucible/Reaction Vessel (RV)    |
| Manufacturer                  | Crucible/RV Cup ID               |
| Model                         | Crucible/RV Lid ID               |
| Firmware Version              | RV Orifice Size, mm              |
|                               | (Procedure D Only)               |
|                               |                                  |
| Operational Parameters        |                                  |
| Test Length, minutes: seconds |                                  |
| Test Temperature, °C          |                                  |
| Differential Pressure, mm H2O |                                  |
|                               |                                  |

| Test Oil Results  |  |
|---|--|
| Initial Sample Weight, g  |  |
| EOT Final Sample Weight, g  |  |
| EOT Sample Evaporation Loss, mass %   |  |
| Transformed EOT Sample Evaporation Loss <sup>B</sup>  |  |
| LTMS Instrument Severity Adjustment (non-reference tests only) <sup>C</sup>                   |  |
| Transformed Severity Adjusted Sample Evaporation Loss (non-reference tests only) <sup>C</sup> |  |
| Final Severity Adjusted Sample Evaporation Loss Result, mass %                                |  |

| Optional Translation Between Procedures A and B |  |  |  |  |
|---|--|--|--|--|
| Translation to Procedure                        |  |  |  |  |
| <b>Translation Factor</b>                       |  |  |  |  |
| Translated Sample Evaporation Loss, mass %      |  |  |  |  |

<sup>&</sup>lt;sup>B</sup> Natural Log transformation; see LTMS manual.

<sup>C</sup> Severity adjustments are only applicable to fully formulated engine oils.

#### ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Form 3 Comments

| Oil Code:                     |                                    |
|-------------------------------|------------------------------------|
| Lab Sample Code:              |                                    |
|                               |                                    |
| Testing Lab:                  | TMC Reference Oil ID:              |
| Date Completed:               | Time Completed:                    |
|                               |                                    |
| Instrument ID:                |                                    |
| Test Run:                     |                                    |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date:   |
|                               |                                    |
| Out Of Limit Data And Tim     | Tost Modifications And Comments    |
| Number of Comment Lines       | e, Test Modifications And Comments |
| Number of Comment Lines       |                                    |
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#### ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Form 3A Comments

| Oil Code:                            |   |
|--------------------------------------|---|
| Lab Sample Code:                     |   |
| [m                                   |   |
| Testing Lab:                         | TMC Reference Oil ID:                   |
| <b>Date Completed:</b>               | Time Completed:                         |
|                                      |   |
| <b>Instrument ID:</b>                |   |
| Test Run:                            |   |
| <b>Date of Last TMC Calibration:</b> | TMC Calibration Expiration Date:        |
|                                      |   |
|                                      |   |
| Out-Of-Limit Data And                | d Time, Test Modifications And Comments |
| Number of Comment Lines              |   |
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#### ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Form 3B Comments

| Oil Code:                     |                                  |
|-------------------------------|----------------------------------|
| Lab Sample Code:              |                                  |
|                               |                                  |
| Testing Lab:                  | TMC Reference Oil ID:            |
| Date Completed:               | Time Completed:                  |
|                               |                                  |
| Instrument ID:                |                                  |
| Test Run:                     |                                  |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date: |
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|                               | Test Modifications And Comments  |
| Number of Comment Lines       |                                  |
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# ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Form 4 QC Data

| Oil Code:                     |                                  |
|-------------------------------|----------------------------------|
| Lab Sample Code:              |                                  |
| Testing Lab:                  | TMC Reference Oil ID:            |
| Date Completed:               | Time Completed:                  |
| <b>Instrument ID:</b>         |                                  |
| Test Run:                     |                                  |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date: |

| QC<br>Sample<br>Test Key | QC<br>Date<br>Completed | QC<br>Daily Run<br>Order | QC<br>Operationally<br>Valid? | QC<br>Statistically<br>Valid? <sup>C</sup> | QC<br>Fluid<br>ID | Evaporation<br>Loss,<br>Mass % | Crucible<br>Cup<br>ID | Crucible<br>Lid<br>ID |
|--------------------------|-------------------------|--------------------------|-------------------------------|--|-------------------|--------------------------------|-----------------------|-----------------------|
|                          |                         |                          |                               |  |                   |                                |                       |                       |
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<sup>&</sup>lt;sup>C</sup>Report 'Y' if QC result is in acceptance range, 'M' if mild of range or 'S' if severe of range.

# ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Form 4A QC Data

| Oil Code:                            |                                  |  |
|--------------------------------------|----------------------------------|--|
| Lab Sample Code:                     |                                  |  |
| Testing Lab:                         | TMC Reference Oil ID:            |  |
| <b>Date Completed:</b>               | Time Completed:                  |  |
| <b>Instrument ID:</b>                |                                  |  |
| Test Run:                            |                                  |  |
| <b>Date of Last TMC Calibration:</b> | TMC Calibration Expiration Date: |  |

| QC<br>Sample | QC<br>Date | QC<br>Daily Run | QC<br>Operationally | QC<br>Statistically | QC<br>Fluid | Evaporation Loss, | Crucible<br>Cup | Crucible<br>Lid |
|--------------|------------|-----------------|---------------------|---------------------|-------------|-------------------|-----------------|-----------------|
| Test Key     | Completed  | Order           | Valid?              | Valid? <sup>C</sup> | ID          | Mass %            | ID              | ID              |
| 1 est Rey    | Completed  | Oraci           | v and .             | v and.              | ID          | 141435 /0         | П               | ID              |
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|              |            |                 |                     |                     |             |                   |                 |                 |
|              | C          |                 |                     |                     |             |                   |                 |                 |

<sup>&</sup>lt;sup>C</sup>Report 'Y' if QC result is in acceptance range, 'M' if mild of range or 'S' if severe of range.

# ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Form 5 QC Comments

| Oil Code:                     |                                  |
|-------------------------------|----------------------------------|
| Lab Sample Code:              |                                  |
| Testing Lab:                  | TMC Reference Oil ID:            |
| Date Completed:               | Time Completed:                  |
| Instrument ID:                |                                  |
| Test Run:                     |                                  |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date: |

| QC Sample<br>Test Key | Date<br>Completed | Daily Run<br>Order | Comments |
|-----------------------|-------------------|--------------------|----------|
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# ASTM Test Method D 5800 Evaporation Loss Of Lubricating Oils By The Noack Method Form 5A QC Comments

| Oil Code:                     |                                  |
|-------------------------------|----------------------------------|
| Lab Sample Code:              |                                  |
| Testing Lab:                  | TMC Reference Oil ID:            |
| Date Completed:               | Time Completed:                  |
| Instrument ID:                |                                  |
| Test Run:                     |                                  |
| Date of Last TMC Calibration: | TMC Calibration Expiration Date: |

| QC Sample<br>Test Key | Date      | Daily Run | Comments |
|-----------------------|-----------|-----------|----------|
| Test Key              | Completed | Order     |          |
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