#### Sequence IIIF Test Report

#### Version

#### Conducted For

| V = Valid  |
|--|
| I = Invalid  |
| N = Results Cannot Be Interpreted As Representative Of Oil Performance (Non- |
| Reference Oil) And Shall Not Be Used For Multiple Test Acceptance            |

| NR = Non-reference oil |
|------------------------|
| RO = Reference oil     |

| Test Number  |                                  |  |  |  |  |  |  |  |
|--------------|----------------------------------|--|--|--|--|--|--|--|
| Test Stand   | Stand Test Number Lab Run Number |  |  |  |  |  |  |  |
| Oil Code:    | Oil Code:                        |  |  |  |  |  |  |  |
| Formulation/ | Stand Code                       |  |  |  |  |  |  |  |
| Alternate Co | Alternate Codes                  |  |  |  |  |  |  |  |
| EOT Date     |                                  |  |  |  |  |  |  |  |

In my opinion this test been conducted in a valid manner in accordance with ASTM Test Method D6984 and the appropriate amendments through the Information Letter System. The remarks included in this report describe anomalies associated with this test.

Submitted By:

Testing Laboratory

Signature

Typed Name

Title

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#### Summary of Test Method

The Sequence IIIF Test is a fired-engine, dynamometer lubricant test for evaluating automotive engine oils for certain high-temperature performance characteristics, including oil thickening, varnish deposition, oil consumption, and engine wear. Such oils include both single viscosity grade and multi-viscosity grade oils that are used in spark-ignition, gasoline-fueled engines, as well as diesel engines.

The Sequence IIIF Test utilizes a 1996 General Motors Powertrain 3800 Series II, water-cooled, 4 cycle, V-6 engine as the test apparatus. The Sequence IIIF test engine is an overhead valve design (OHV) and uses a single camshaft operating both intake and exhaust valves via pushrods and hydraulic valve lifters in a sliding-follower arrangement. The engine uses one intake and one exhaust valve per cylinder. Induction is handled by a modified GM port fuel injection system setting the Air-to-Fuel ratio at 15:1. The test engine is overhauled prior to each test, during which critical engine dimensions are measured and rated or measured parts (pistons, camshaft, valve lifters, etc.) are replaced.

The Sequence IIIF Test consists of a 10-minute operational check, followed by 80 hours of engine operation at moderately high speed, load, and temperature conditions. The 80-hour segment is broken down into eight 10-hour test segments. Following each 10-hour segment, and the 10-minute operational check, oil samples are drawn from the engine. The kinematic viscosities of the 10-hour segment samples are compared to the viscosity of the 10-minute sample to determine the viscosity increase of the test oil.

| Parameter                            | Set Point  |
|--------------------------------------|------------|
| Engine Speed                         | 3600 r/min |
| Engine Load                          | 200 N·m    |
| Oil Filter Block Temperature         | 155 °C     |
| Coolant Outlet Temperature           | 122 °C     |
| Fuel Pressure                        | 365 kPa    |
| Intake Air Temperature               | 27 °C      |
| Intake Air Pressure                  | 0.05 kPa   |
| Intake Air Dew Point                 | 16.1 °C    |
| Exhaust Back Pressure                | 6 kPa      |
| Engine Coolant Flow                  | 160 L/min  |
| Condenser Coolant Flow               | 10 L/min   |
| Air-to-Fuel Ratio                    | 15.0:1     |
| Condenser Coolant Outlet Temperature | 40 °C      |

The Sequence IIIF Test is operated at the following test states during the 80-hour portion of the test:

## **Test Result Summary**

| Laboratory           | Oilcode |          |  |
|----------------------|---------|----------|--|
| Test Stand No.       |         | Test No. |  |
| Laboratory Oil Code  |         |          |  |
| Formulation Stand Co | de      |          |  |

| Date Started   | Engine No.                |
|----------------|---------------------------|
| Time Started   | Fuel Batch                |
| Date Completed | SAE Viscosity             |
| Time Completed | TMC Oil Code <sup>A</sup> |
| Test Length    |                           |

| Pass/Fail Results                |                              |   |   |   |                                 |  |  |  |
|----------------------------------|------------------------------|---|---|---|---------------------------------|--|--|--|
|                                  | Viscosity<br>Increase<br>(%) | Screened<br>Average<br>Cam + Lifter<br>Wear<br>(µm) | Average<br>Weighted<br>Piston<br>Deposits<br>(merits) | Average<br>Piston<br>Skirt<br>Varnish<br>(merits) | Number of<br>Hot Stuck<br>Rings | Oil<br>Consumption<br>(L) <sup>B</sup> |  |  |
| Original Units                   |                              |   |   |   |                                 |  |  |  |
| Transformed Results <sup>C</sup> |                              |   |   |   |                                 |  |  |  |
| Industry Correction Factor       |                              |   |   |   |                                 |  |  |  |
| Corrected Transformed Result     |                              |   |   |   |                                 |  |  |  |
| Severity Adjustment              |                              |   |   |   |                                 |  |  |  |
| Final Transformed Result         |                              |   |   |   |                                 |  |  |  |
| Final Original Unit Result       |                              |   |   |   |                                 |  |  |  |

| Additional Results                                    |                            |  |  |  |  |  |
|---|----------------------------|--|--|--|--|--|
| Oil Consumption Hours, h Average Oil Ring Plugging, % |                            |  |  |  |  |  |
| Maximum Cam + Lifter Wear, µm                         | Number of Cold-Stuck Rings |  |  |  |  |  |
| Average Cam + Lifter Wear, µm                         |                            |  |  |  |  |  |

| Most Recent Stand Reference Oil Test History <sup>D</sup> |              |  |  |  |  |  |  |
|---|--------------|--|--|--|--|--|--|
| Test Number   |              |  |  |  |  |  |  |
| Oilcode   |              |  |  |  |  |  |  |
| Date Completed  | TMC Oil Code |  |  |  |  |  |  |
| Final Viscosity Increase, %                               | Fuel Batch   |  |  |  |  |  |  |
| Final Average Piston Skirt Varnish, merits                |              |  |  |  |  |  |  |
| Final Screened Average Cam + Lifter Wear, µm              |              |  |  |  |  |  |  |
| Final Maximum Cam + Lifter Wear, µm                       |              |  |  |  |  |  |  |
| Final Average Weighted Piston Deposit, merits             |              |  |  |  |  |  |  |

<sup>A</sup> Reference Oil Tests Only

<sup>B</sup> Test Hours at which Oil Consumption was calculated

<sup>C</sup> Percent Viscosity Increase Transformation is 1/SQRT(Viscosity Increase)

<sup>D</sup> Non-reference Oil Tests Only

# **Operational Summary**

| Laboratory           | Oilcode |          |  |
|----------------------|---------|----------|--|
| Test Stand No.       |         | Test No. |  |
| Laboratory Oil Code  |         |          |  |
| Formulation Stand Co | ode     |          |  |

|           | Parameter                   | Units | QI    | EOT QI | Tangat | Avenage | Standard  | Num                  | ber of           |
|-----------|-----------------------------|-------|-------|--------|--------|---------|-----------|----------------------|------------------|
|           | rarameter                   | Units | Limit | LUI QI | Target | Average | Deviation | Samples <sup>A</sup> | BQD <sup>B</sup> |
|           | Speed                       | r/min | 0.000 |        | 3600   |         |           |                      |                  |
| ers       | Load                        | N·m   | 0.000 |        | 200    |         |           |                      |                  |
| met       | Oil Filter Block            | °C    | 0.000 |        | 155.0  |         |           |                      |                  |
| arameters | Engine Coolant Out          | °C    | 0.000 |        | 122.0  |         |           |                      |                  |
| Р         | Condenser Coolant Out       | °C    | 0.000 |        | 40.0   |         |           |                      |                  |
| ontrolled | Left Air-to-Fuel Ratio      | -     | 0.000 |        | 15.0   |         |           |                      |                  |
| ntr       | Right Air-to-Fuel Ratio     | -     | 0.000 |        | 15.0   |         |           |                      |                  |
| Co        | Left Exhaust Back Pressure  | kPa   | 0.000 |        | 6.0    |         |           |                      |                  |
|           | Right Exhaust Back Pressure | kPa   | 0.000 |        | 6.0    |         |           |                      |                  |
|           | Intake Air                  | kPa   | 0.000 |        | 0.05   |         |           |                      |                  |
|           | Engine Coolant Flow         | L/min | 0.000 |        | 160.0  |         |           |                      |                  |

|                | Parameter            | Units | A       | Standard  | Num                  | ber of           |
|----------------|----------------------|-------|---------|-----------|----------------------|------------------|
|                | rarameter            | Units | Average | Deviation | Samples <sup>A</sup> | BQD <sup>B</sup> |
| Parameters     | Oil Sump             | °C    |         |           |                      |                  |
| met            | Pump Outlet Pressure | kPa   |         |           |                      |                  |
| ara            | Gallery Pressure     | kPa   |         |           |                      |                  |
| d P            | Engine Coolant In    | °C    |         |           |                      |                  |
| olle           | Fuel Inlet           | °C    |         |           |                      |                  |
| ntr            | Intake Air           | °C    |         |           |                      |                  |
| Non-controlled | Intake Air Dew Point | °C    |         |           |                      |                  |
| Noi            | Intake Vacuum        | kPa   |         |           |                      |                  |
|                | Crankcase            | kPa   |         |           |                      |                  |
|                | Fuel Pressure        | kPa   |         |           |                      |                  |

|                   | Oil Consumption Data |  |  |  |  |  |  |  |
|-------------------|----------------------|--|--|--|--|--|--|--|
| HOURS             | Initial<br>Run-in    |  |  |  |  |  |  |  |
| LEVEL<br>(ml) low |                      |  |  |  |  |  |  |  |

| NO <sub>X</sub> Measurement |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|
| Hours                       |  |  |  |  |  |
| NO <sub>X</sub> , ppm       |  |  |  |  |  |

# **Used Oil Analysis Results**

| Laboratory           | Oilcode |          |  |
|----------------------|---------|----------|--|
| Test Stand No.       |         | Test No. |  |
| Laboratory Oil Code  |         |          |  |
| Formulation Stand Co | ode     |          |  |

| Viscosity Increase Data (cSt @ 40°C)        |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Hours Viscosity <sup>A</sup> Change Percent |  |  |  |  |  |  |  |
| New Oil                                     |  |  |  |  |  |  |  |
| Initial <sup>B</sup>                        |  |  |  |  |  |  |  |
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|   |  |  |  |  |  |  |  |

<sup>A</sup> 8000 cSt is maximum allowable viscosity <sup>B</sup> At end of leveling run

|               | <b>Results of ICP Analysis of Used Oil</b> |  |  |  |  |  |  |  |  |
|---------------|--|--|--|--|--|--|--|--|--|
| Test<br>Hours | Initial                                    |  |  |  |  |  |  |  |  |
| Iron          |  |  |  |  |  |  |  |  |  |
| Copper        |  |  |  |  |  |  |  |  |  |
| Lead          |  |  |  |  |  |  |  |  |  |

| Cold Crank Simulator Results, D5293      |  |  |  |  |
|--|--|--|--|--|
| Final Temperature, °C                    |  |  |  |  |
| Final Cold-Crank Simulator Viscosity, cP |  |  |  |  |

| Mini-Rotary Viscometer Results, D4684 |  |  |  |  |
|---------------------------------------|--|--|--|--|
| MRV Temperature, °C                   |  |  |  |  |
| MRV Result, cP                        |  |  |  |  |
| Yield Stress, cP                      |  |  |  |  |

## Valve Lifter and Camshaft Wear Results

| Laboratory             | Oilcode |          |  |
|------------------------|---------|----------|--|
| Test Stand No          |         | Test No. |  |
| Laboratory Oil Code    |         |          |  |
| Formulation Stand Code |         |          |  |

| Number  | Camshaft Lobe, µm         | Valve Lifter, µm        | Cam & Lifter Wear, µm |
|---------|---------------------------|-------------------------|-----------------------|
| 1       |                           |                         |                       |
| 2       |                           |                         |                       |
| 3       |                           |                         |                       |
| 4       |                           |                         |                       |
| 5       |                           |                         |                       |
| 6       |                           |                         |                       |
| 7       |                           |                         |                       |
| 8       |                           |                         |                       |
| 9       |                           |                         |                       |
| 10      |                           |                         |                       |
| 11      |                           |                         |                       |
| 12      |                           |                         |                       |
|         |                           |                         |                       |
| Maximum |                           |                         |                       |
| Minimum |                           |                         |                       |
| Average |                           |                         |                       |
|         | Screened Average Cam + Li | ifter Wear <sup>A</sup> |                       |

<sup>A</sup> Average Cam + Lifter Wear based on ten positions, excluding the minimum and maximum positions.

# **Summary Of Oil Ring Land Deposit Ratings**

| Laboratory      |          | Oilcode |          |        |  |
|-----------------|----------|---------|----------|--------|--|
| Test Stand No.  |          |         | Test No. |        |  |
| Laboratory Oil  | Code     |         |          |        |  |
| Formulation Sta | and Code |         |          |        |  |
| Rater           |          |         | Rating   | g Date |  |

| Piston  | Oil Ring Land Deposit<br>Rating, Merits | % Chipped |
|---------|---|-----------|
| 1       |   |           |
| 2       |   |           |
| 3       |   |           |
| 4       |   |           |
| 5       |   |           |
| 6       |   |           |
| Average |   |           |

| Piston  | % Oil Ring | Ring Sticking <sup>A</sup> |                  |  |  |  |  |
|---------|------------|----------------------------|------------------|--|--|--|--|
| 1 Iston | Plugging   | Hot-Stuck Rings            | Cold-Stuck Rings |  |  |  |  |
| 1       |            |                            |                  |  |  |  |  |
| 2       |            |                            |                  |  |  |  |  |
| 3       |            |                            |                  |  |  |  |  |
| 4       |            |                            |                  |  |  |  |  |
| 5       |            |                            |                  |  |  |  |  |
| 6       |            |                            |                  |  |  |  |  |
| Total   |            |                            |                  |  |  |  |  |
| Average |            |                            |                  |  |  |  |  |

<sup>A</sup> Possible values: T = top compression ring B = bottom compression ring

O = oil ring N = none

#### **Summary Of Piston Deposits**

| Laborator | y .            | Oilcode   |       |  |  |  |
|-----------|----------------|-----------|-------|--|--|--|
| Test Stan | d No.          | Test 1    | No.   |  |  |  |
| Laborator | ry Oil Code    |           |       |  |  |  |
| Formulat  | ion Stand Code |           |       |  |  |  |
| Rater     |                | Rating Da | ate   |  |  |  |
| NT 4      | CDCM 14        |           | 11 4. |  |  |  |

Note: CRC Manual 20 used for all ratings.

Note: These are all unweighted ratings.

|          | (    | Frooves, meri | ts   | Lands, | Undercrown, |        |
|----------|------|---------------|------|--------|-------------|--------|
|          | 1    | 2             | 3    | 2      | 3           | merits |
| Piston 1 |      |               |      |        |             |        |
| Piston 2 |      |               |      |        |             |        |
| Piston 3 |      |               |      |        |             |        |
| Piston 4 |      |               |      |        |             |        |
| Piston 5 |      |               |      |        |             |        |
| Piston 6 |      |               |      |        |             |        |
| WF       | 0.05 | 0.10          | 0.20 | 0.15   | 0.30        | 0.10   |

Note: These are all unweighted ratings.

|          | Piston | Piston Skirt Varnish, merits |         |  |  |  |  |
|----------|--------|------------------------------|---------|--|--|--|--|
|          | Thrust | Anti-Thrust                  | Average |  |  |  |  |
| Piston 1 |        |                              |         |  |  |  |  |
| Piston 2 |        |                              |         |  |  |  |  |
| Piston 3 |        |                              |         |  |  |  |  |
| Piston 4 |        |                              |         |  |  |  |  |
| Piston 5 |        |                              |         |  |  |  |  |
| Piston 6 |        |                              |         |  |  |  |  |
| Average  |        |                              |         |  |  |  |  |
| WF       |        |                              | 0.10    |  |  |  |  |

|          | Total Weighted<br>Deposits, merits |
|----------|------------------------------------|
| Piston 1 |                                    |
| Piston 2 |                                    |
| Piston 3 |                                    |
| Piston 4 |                                    |
| Piston 5 |                                    |
| Piston 6 |                                    |

Average Weighted Piston Deposits, merits

# **Blowby Values & Plot**

| Laboratory             | Oilcode |     |
|------------------------|---------|-----|
| Test Stand No.         | Test N  | No. |
| Laboratory Oil Code    |         |     |
| Formulation Stand Code |         |     |

Blowby Plot

| <b>Test Hours</b> |  |  |  |  |         |
|-------------------|--|--|--|--|---------|
| Blowby,           |  |  |  |  |         |
| L/min             |  |  |  |  |         |
| <b>Test Hours</b> |  |  |  |  | Average |
| Blowby,           |  |  |  |  |         |
| L/min             |  |  |  |  |         |

## Viscosity Increase Plot

| Laboratory             | Oilcode  |
|------------------------|----------|
| Test Stand No.         | Test No. |
| Laboratory Oil Code    |          |
| Formulation Stand Code |          |
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## Hardware Information

| Laboratory              | Oilcode |          |  |
|-------------------------|---------|----------|--|
| Test Stand No.          |         | Test No. |  |
| Laboratory Oil Code     |         |          |  |
| Formulation Stand Cod   | le      |          |  |
| I officiation Stand Cot | ie      |          |  |

| Build Completion Date              | Piston Batch (Code)  |  |
|------------------------------------|--|--|
| Block Serial Number                | Piston Size (Grade)  |  |
| Crankshaft Serial Number           | Piston Ring Batch Code   |  |
| Camshaft Serial Number             | Oil Filter Batch Code  |  |
| Cylinder Head Serial Number, Left  | Intake Valve Seals Batch Code  |  |
| Cylinder Head Serial Number, Right | Valve Springs Batch Code   |  |
| Bearing Kit Serial Number          | Lifter Position 1  |  |
| Top Ring Gap, mils                 | Lifter Position 2  |  |
| Bottom Ring Gap, mils              | Lifter Position 3  |  |
| Connecting Rod Type (CAST or PM)   | Lifter Position 4  |  |
|                                    | Lifter Position 5  |  |
|                                    | Lifter Position 4<br>Lifter Position 5<br>Lifter Position 6<br>Lifter Position 7<br>Lifter Position 8<br>Lifter Position 9 |  |
|                                    | Lifter Position 7  |  |
|                                    | 년<br>Lifter Position 8   |  |
|                                    | Lifter Position 9  |  |
|                                    | Lifter Position 10   |  |
|                                    | Lifter Position 11   |  |
|                                    | Lifter Position 12   |  |

# Downtime & Outlier Report Form

| Lab                    | Oil Code      |          |  |
|------------------------|---------------|----------|--|
| Stand                  | ]             | Гest No. |  |
| Laborat                | tory Oil Code |          |  |
| Formulation Stand Code |               | le       |  |

| Number of     | of Downtime | e Occurrences |   |
|---------------|-------------|---------------|---|
| Test<br>Hours | Date        | Downtime      | Reasons   |
|               |             |               |   |
|               |             |               |   |
|               |             |               |   |
|               |             |               |   |
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|               |             |               |   |
|               |             |               |   |
|               |             |               | Total Downtime (hours) – Maximum allowable downtime: 24 hours |

| Other Comments          |  |  |  |
|-------------------------|--|--|--|
| Number of Comment Lines |  |  |  |
|                         |  |  |  |
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|                         |  |  |  |

## Sequence IIIF Form 13A

# Downtime & Outlier Report Form

| Lab    |                | Oil Code |  |  |  |
|--------|----------------|----------|--|--|--|
| Stand  |                | Test No. |  |  |  |
| Labora | tory Oil Code  |          |  |  |  |
| Formul | ation Stand Co | ode      |  |  |  |

| Number of Downtime Occurrences |      | e Occurrences |   |
|--------------------------------|------|---------------|---|
| Test<br>Hours                  | Date | Downtime      | Reasons   |
|                                |      |               |   |
|                                |      |               |   |
|                                |      |               |   |
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|                                |      |               |   |
|                                |      |               | Total Downtime (hours) – Maximum allowable downtime: 24 hours |

| Other Comments          |  |  |  |
|-------------------------|--|--|--|
| Number of Comment Lines |  |  |  |
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## Sequence IIIF Form 13B

# Downtime & Outlier Report Form

| Lab    |                | Oil Code |  |
|--------|----------------|----------|--|
| Stand  |                | Test No. |  |
| Labora | tory Oil Code  |          |  |
| Formul | ation Stand Co | ode      |  |

| Number of Downtime Occurrences |      | e Occurrences |   |
|--------------------------------|------|---------------|---|
| Test<br>Hours                  | Date | Downtime      | Reasons   |
|                                |      |               |   |
|                                |      |               |   |
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|                                |      |               |   |
|                                |      |               | Total Downtime (hours) – Maximum allowable downtime: 24 hours |

| Other Comments          |  |  |  |
|-------------------------|--|--|--|
| Number of Comment Lines |  |  |  |
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#### Sequence IIIF Form 14 American Chemistry Council Code Of Practice Test Laboratory Conformance Statement

| Test Laborate | ory          |            |           |  |
|---------------|--------------|------------|-----------|--|
| Test Sponsor  |              |            |           |  |
| Formulation   | / Stand Code |            |           |  |
| Test Number   |              |            |           |  |
| Start Date    |              | Start Time | Time Zone |  |

#### **Declarations**

- No. 1 All requirements of the ACC Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes \_\_\_\_\_ No\_\_\_\_\*
- No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.

| Yes | No | * |
|-----|----|---|
|     |    |   |

| If the respon | se to this | Declarat   | tion is " | No", does  | the test   | engineer  | consider 1  | the deviat | ions |
|---------------|------------|------------|-----------|------------|------------|-----------|-------------|------------|------|
| from operati  | onal vali  | dity requi | irement   | s that occ | urred to b | be beyond | l the contr | rol of the |      |
| laboratory?   | Yes        | *          | No        |            |            |           |             |            |      |

No 3. A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes \_\_\_\_\_\* No\_\_\_\_\_(*This currently applies only to specific deviations identified in the ASTM Information Letter System*)

#### Check The Appropriate Conclusion

| Operational review of this test indicates that the results should be included in the      |
|---|
| Multiple Test Acceptance Criteria calculations.   |
| *Operational review of this test indicates that the results should not be included in the |
| Multiple Test Acceptance Criteria calculations.   |

Note: Supporting comments are required for all responses identified with an asterisk.

Comments

Signature

Date

Typed Name

Title