

# CEC L-54 M11FE

## Fuel Economy Improvement Test

### Test Procedure Information

|                       |                          |
|-----------------------|--------------------------|
| Test Procedure:       | Issue:                   |
| Procedure Issue Date: | Data Dictionary Version: |

### FORMULATION STAND CODE:

#### Test Sponsor:

|               |                |
|---------------|----------------|
| Test Number:  | Test Stand:    |
| Test Length:  | SAE Viscosity: |
| DATE STARTED: | TIME STARTED:  |
| OIL CODE:     |                |

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### VALIDITY STATEMENTS & TEST INFORMATION

| Statement                                                                 | Yes | No |
|---------------------------------------------------------------------------|-----|----|
| Is Letter of Intent with ERC?                                             |     |    |
| Was the test properly registered?                                         |     |    |
| Was the test stand referenced in accordance with the C.O.P.?              |     |    |
| Was the test stand referenced in accordance with the C.O.P.? (Ref. tests) |     |    |
| Is the outcome declared to be in accordance with the C.O.P?               |     |    |
| Valid and Completed, VCC.                                                 |     |    |
| Is the outcome declared to be within acceptance bands?                    |     |    |
| Valid and stopped by sponsor, VSC.                                        |     |    |
| Valid and Terminated, VTC. (comment required)                             |     |    |
| Invalid and Completed, IC. (comment required)                             |     |    |
| Invalid and Aborted, IA. (comment required)                               |     |    |

#### Validity Comments

|  |
|--|
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|                    |       |
|--------------------|-------|
| Test Validated By: | Date: |
|--------------------|-------|

|                  |            |             |
|------------------|------------|-------------|
| Fuel Information | Fuel Code: | Fuel Batch: |
|------------------|------------|-------------|

|                |
|----------------|
| Fuel Supplier: |
|----------------|

#### Reference Test Information

|                      |                      |
|----------------------|----------------------|
| Reference Oil 1 Test | Reference Oil 2 Test |
| Oil:                 | Oil:                 |
| Form:                | Form:                |
| Test Number:         | Test Number:         |

# CEC L-54 M11FE

## Fuel Economy Improvement Test

**FORMULATION STAND CODE:**

**OIL CODE:**

### Primary Test Results

| Parameter, units                                             | Value |
|--------------------------------------------------------------|-------|
| Percent Change, BL Ref vs Measurement 3, %                   |       |
| Percent Change, Pre vs Post Test Reference Runs, %           |       |
| Standard Deviation for Total Fuel, Pre-Test BL Reference, g  |       |
| Standard Deviation for Total Fuel, Post-Test BL Reference, g |       |
| Standard Deviation for Total Fuel, Candidate 3, g            |       |

### Secondary and Supporting Test Results

| Parameter, units                              | Value | Parameter, units                                       | Value |
|-----------------------------------------------|-------|--------------------------------------------------------|-------|
| Baseline Reference Total Fuel Used, g         |       | RL191 Batch Number                                     |       |
| Measurement 1 Candidate, Total Fuel Used, g   |       | Engine Number                                          |       |
| Measurement 2 Candidate, Total Fuel Used, g   |       | Cumulative Hours Run on Engine                         |       |
| Measurement 3 Candidate, Total Fuel Used, g   |       | Percent Change, BL Ref vs Measurement 1                |       |
|                                               |       | Percent Change, BL Ref vs Measurement 2                |       |
| Pre-Test Reference Oil Variability SD, g      |       | Measurement 3 Candidate Oil Summary Total Fuel Used, g |       |
| 20° C Phase                                   |       | 20° C Phase                                            |       |
| 33° C Phase                                   |       | 33° C Phase                                            |       |
| 75° C Phase                                   |       | 75° C Phase                                            |       |
| ECE 15 Phase                                  |       | ECE 15 Phase                                           |       |
| EUDC Phase                                    |       | EUCD Phase                                             |       |
| Measurement 3 Candidate Oil Variability SD, g |       | Measurement 3 Candidate Oil Summary, % FE              |       |
| 20° C Phase                                   |       | 20° C Phase                                            |       |
| 33° C Phase                                   |       | 33° C Phase                                            |       |
| 75° C Phase                                   |       | 75° C Phase                                            |       |
| ECE 15 Phase                                  |       | ECE 15 Phase                                           |       |
| EUCD Phase                                    |       | EUCD Phase                                             |       |
| Engine Number                                 |       | Engine Hours, cumulative                               |       |

### Reference Oil Test Results

| Parameter, units                                             |  |  |
|--------------------------------------------------------------|--|--|
| Ref. Oil Code                                                |  |  |
| Ref. Oil Batch                                               |  |  |
| Percent Change, BL Ref vs Measurement 3, %                   |  |  |
| Percent Change, Pre vs Post Test Reference Runs, %           |  |  |
| Standard Deviation for Total Fuel, Pre-Test BL Reference, g  |  |  |
| Standard Deviation for Total Fuel, Post-Test BL Reference, g |  |  |
| Standard Deviation for Total Fuel, Candidate 3, g            |  |  |