Sequence VIBSJ
Report Cover Sheet

Version: VIBSJ VERSION 20030820 BETA

Conducted For:
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

C	**V = Valid**
	I = Invalid
	N = Results cannot be interpreted (refer to comment section)

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			
Alternate Codes	CCCCCCCCCCCCCCC	CCCCCCCCCCCCCCC	CCCCCCCCCCCCCCC

In my opinion this test CCCCCCCC been conducted in a valid manner in accordance with the Test Method D 6837 and the appropriate amendments through the Information Letter System. The remarks included in the report describe the anomalies associated with this test.

Submitted By: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Testing Laboratory

Signature Image
Signature

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Typed Name

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Title

Form 2

Sequence VIBSJ

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Form 3

Summary of Test Method

The Sequence VIB is an engine dynamometer test that measures a lubricant's ability to improve the fuel economy of passenger cars and light-duty trucks. The method compares the performance of a test lubricant to the performance of a baseline lubricant over five different stages of operation.

A 1993 Ford 4.6L spark ignition, V-8 cylinder design,4-cycle engine is used as the test apparatus. The engine incorporates overhead camshafts, a cross-flow, fast-burn cylinder head design, two valves per cylinder, and an electronic port fuel injection.

The Sequence VIBSJ test incorporates a flush and run type procedure. Each test consists of two 5-stage fuel economy measurements on baseline oil (BC) and test oil. The test oil is aged during 16 hours of engine operation at 1500 r/min and 125°C oil temperature. The fuel economy measurements taken on the baseline oil (BC) and test oil are used to calculate a final value for Fuel Economy Improvement.

Below is a summary of the operation conditions for the aging and 5-stage fuel economy portions of the test.

Fuel Economy Measurement and Aging Condition				
FE Stage	**Speed (r/min)**	**Torque (N-m)**	**Oil Temp. (°C)**	**Coolant Temp. (°C)**
1	1500	98	125	105
2	800	26	105	95
3	800	26	70	60
4	1500	98	70	60
5	1500	98	45	45

Aging Stage	**Speed (r/min)**	**Torque (N-m)**	**Oil Temp. (°C)**	**Coolant Temp. (°C)**
1	1500	98	125	105

Sequence VIBSJ
Form 4
Test Result Summary
Non-Reference & Reference Oil Tests

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		Engine Serial Number: CCCCCCCCCCC	
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

Test Documentation		
	BC Before	**Test Oil**
Start Date	YYYYMMDD	YYYYMMDD
Start Time	HH:MM	HH:MM
End Date	YYYYMMDD	YYYYMMDD
End Time	HH:MM	HH:MM
Oil Test Length, hhh:mm	HHH:MM	HHH:MM
Calibration Oil Batch	CCCCCCCCCC	
Flush Oil Batch	CCCCCCCCCC	
Laboratory Oil Code		CCCCCCCCCCCCCCCCCCCC
SAE Viscosity Grade		CCCCCCC
TMC Oil Code (Reference Oil Tests Only)		CCCCCC
New Oil Viscosity @ 40 °C, cSt		S1234.12
New Oil Viscosity @ 100°C, cSt		S1234.12
Total Test Length, hhh:mm	CCCCC	
Total Engine Hours @ EOT	CCCCC	
Most Recent Fuel Batch	CCCCCCCCCC	

Overall Results		
	BC Oil	**Test Oil**
Fuel Consumed, kg	S1.123456	S1.123456
Fuel Economy Improvement, %		S12.12
FEI Industry Correction Factor, %		S12.12
FEI Severity Adjustment, % (non-reference tests only)		S12.12
FEI Final Result, %		S12.12

Last Reference Oil Test on Stand/Engine History (Non-Reference Tests Only)			
Date Completed	YYYYMMDD	Fuel Batch	CCCCCCCCCC
TMC Oil Code	CCCCCC	SAE Viscosity Grade	CCCCCCC
Oilcode	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Calibration Oil Batch	CCCCCCCCCC
Runs on Stand	CCCC	Runs on Engine	CCCC
		Phase I	**Phase II**
Final FEI Results		S12.12	S12.12

Sequence VIBSJ
Form 5
Operational Data Analysis

Lab: CC	**Date Completed:** YYYYMMDD	**Time Completed:** HH:MM	
Test Number			
Test Stand: CCCCC	**Runs On The Stand:** CCCC	**Engine No.** CCCCCCCCCCCCCCC	**Runs on Engine:** CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

Computed Averages						
Oil	**Stage**	**BSFC kg/kW-h**	**BSFC C.V.%**	**Nominal Power kW**	**Weight Factor**	**Weighted Fuel Consumed kg**
BC Oil	1	S1.12345	S1.12	**15.39**	**0.0802**	S1.123456
	2	S1.12345	S1.12	**2.18**	**0.0787**	S1.123456
	3	S1.12345	S1.12	**2.18**	**0.0848**	S1.123456
	4	S1.12345	S1.12	**15.39**	**0.0864**	S1.123456
	5	S1.12345	S1.12	**15.39**	**0.0699**	S1.123456
Total Fuel Consumed						S1.123456

Computed Averages						
Oil	**Stage**	**BSFC kg/kW-h**	**BSFC C.V.%**	**Nominal Power kW**	**Weight Factor**	**Weighted Fuel Consumed kg**
Test Oil	1	S1.12345	S1.12	**15.39**	**0.0802**	S1.123456
	2	S1.12345	S1.12	**2.18**	**0.0787**	S1.123456
	3	S1.12345	S1.12	**2.18**	**0.0848**	S1.123456
	4	S1.12345	S1.12	**15.39**	**0.0864**	S1.123456
	5	S1.12345	S1.12	**15.39**	**0.0699**	S1.123456
Total Fuel Consumed						S1.123456

Sequence VIBSJ
Form 6
General Parameter Listing

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

16 Hour Aging

	Spec	Average [A]	Max[A]	Min [A]
1. Speed, r/min	**1500 ±5**	S1234.1	S1234.1	S1234.1
2. Torque, N-m	**98 ±0.10**	S12.12	S12.12	S12.12
3. Oil Gallery Temperature, °C	**125 ±2**	S123.1	S123.1	S123.1
4. Coolant Inlet Temperature, °C	**105 ±2**	S123.1	S123.1	S123.1
5. Oil Circulation Temperature, °C	**Record**	S123.1	S123.1	S123.1
6. Coolant Out Temperature, °C	**Record**	S123.1	S123.1	S123.1
7. Intake Air Temperature, °C	**27 ±2**	S123.1	S123.1	S123.1
8. Fuel to Flowmeter Temperature, °C	**20-32**	S123.1	S123.1	S123.1
9. Fuel to Fuel Rail Temperature, °C	**20 ±2**	S123.1	S123.1	S123.1
10. Load Cell Temperature, °C	**Record**	S123.1	S123.1	S123.1
11. Oil Heater Temperature, °C	**205 max**	S123.1	S123.1	S123.1
12. Intake Air Pressure, kPa	**0.05 ±0.02**	S1.12	S1.12	S1.12
13. Fuel to Flowmeter Pressure, kPa	**100 min**	S123.1	S123.1	S123.1
14. Fuel to Fuel Rail Pressure, kPa	**205-310**	S123.1	S123.1	S123.1
15. Intake Manifold Pressure, kPa abs.	**Record**	S12.1	S12.1	S12.1
16. Exhaust Back Pressure, kPa abs.	**104 ±0.20**	S123.12	S123.12	S123.12
17. Engine Oil Pressure, kPa	**Record**	S123.1	S123.1	S123.1
18. Coolant Flow, L/min	**130 ±4**	S123.1	S123.1	S123.1
19. Fuel Flow, kg/h	**Record**	S12.123	S12.123	S12.123
20. Intake Air Humidity, grains/kg	**11.4±0.8**	S12.1	S12.1	S12.1
21. Air/Fuel Ratio	**Record**	S12.12	S12.12	S12.12
22. Crankcase Pressure, kPa	**0.00 ±0.25**	S12.12	S12.12	S12.12

[A] Based on a minimum of one determination per hour

Sequence VIBSJ
Form 7
General Parameter Summary

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

BC Oil

General Parameters

		Stage				
	Spec	**1**	**2**	**3**	**4**	**5**
1. Oil Circulation Temperature,	**Record**	S123.1	S123.1	S123.1	S123.1	S123.1
2. Coolant Out Temperature, °C	**Record**	S123.1	S123.1	S123.1	S123.1	S123.1
3. Fuel to Flowmeter	**20-32**	S12.1	S12.1	S12.1	S12.1	S12.1
4. Delta Fuel to Flowmeter	**≤4**	S12.1	S12.1	S12.1	S12.1	S12.1
5. Test Cell Temperature, °C	**Record**	S12.1	S12.1	S12.1	S12.1	S12.1
6. Load Cell Temperature, °C	**Record**	S12.1	S12.1	S12.1	S12.1	S12.1
7. Delta Load Cell Temperature,	**≤12**	S12.1	S12.1	S12.1	S12.1	S12.1
8. Oil Heater Temperature, °C	**205 max**	S123.1	S123.1	S123.1	S123.1	S123.1
9. Intake Air Pressure, kPa	**0.05 ±**	S1.12	S1.12	S1.12	S1.12	S1.12
10. Fuel to Flowmeter Pressure,	**100 min**	S123.1	S123.1	S123.1	S123.1	S123.1
11. Fuel to Fuel Rail Pressure,	**205-310**	S123.1	S123.1	S123.1	S123.1	S123.1
12. Intake Manifold Pressure, kPa	**Record**	S12.1	S12.1	S12.1	S12.1	S12.1
13. Engine Oil Pressure, kPa	**Record**	S123.1	S123.1	S123.1	S123.1	S123.1
14. Coolant Flow, L/min	**130 ±4**	S123.1	S123.1	S123.1	S123.1	S123.1
15. Intake Air Humidity,	**11.4 ±0.8**	S12.1	S12.1	S12.1	S12.1	S12.1
16. Crankcase Pressure, kPa	**0.00 ±**	S12.12	S12.12	S12.12	S12.12	S12.12
17.Blowby,L/min [B]	**Record**	S12.12				
18. Barometric Pressure, kPa	**Record**	S123.12	S123.12	S123.12	S123.12	S123.12

[A] Difference between the maximum stage average reading of the entire test and the individual stage average readings
[B] Not required by test procedure

Sequence VIB
Form 8
General Parameter Summary

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

Test Oil

General Parameters

		Stage				
	Spec	**1**	**2**	**3**	**4**	**5**
1. Oil Circulation Temperature, °C	**Record**	S123.1	S123.1	S123.1	S123.1	S123.1
2. Coolant Out Temperature, °C	**Record**	S123.1	S123.1	S123.1	S123.1	S123.1
3. Fuel to Flowmeter Temperature, °C	**20-32**	S12.1	S12.1	S12.1	S12.1	S12.1
4. Delta Fuel to Flowmeter Temp., °C [A]	**≤ 4**	S12.1	S12.1	S12.1	S12.1	S12.1
5. Test Cell Temperature, °C	**Record**	S12.1	S12.1	S12.1	S12.1	S12.1
6. Load Cell Temperature, °C	**Record**	S12.1	S12.1	S12.1	S12.1	S12.1
7. Delta Load Cell Temperature, °C [A]	**≤ 12**	S12.1	S12.1	S12.1	S12.1	S12.1
8. Oil Heater Temperature, °C	**205 max**	S123.1	S123.1	S123.1	S123.1	S123.1
9. Intake Air Pressure, kPa	**0.05 ± .02**	S1.12	S1.12	S1.12	S1.12	S1.12
10. Fuel to Flowmeter Pressure, kPa	**100 min**	S123.1	S123.1	S123.1	S123.1	S123.1
11. Fuel to Fuel Rail Pressure, kPa	**205 – 310**	S123.1	S123.1	S123.1	S123.1	S123.1
12. Intake Manifold Pressure, kPa abs.	**Record**	S12.1	S12.1	S12.1	S12.1	S12.1
13. Engine Oil Pressure, kPa	**Record**	S123.1	S123.1	S123.1	S123.1	S123.1
14. Coolant Flow, L/min	**130 ± 4**	S123.1	S123.1	S123.1	S123.1	S123.1
15. Intake Air Humidity, grains/kg	**11.4 ± 0.8**	S12.1	S12.1	S12.1	S12.1	S12.1
16. Crankcase Pressure, kPa	**0.00 ± 0.25**	S12.12	S12.12	S12.12	S12.12	S12.12
17. Barometric Pressure, kPa	**Record**	S123.12	S123.12	S123.12	S123.12	S123.12

[A] Difference between the maximum stage average reading of the entire test and the individual stage average readings

Sequence VIBSJ
Form 9
Critical Parameter Summary - Stage 1

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

BC Oil

Step SPEC	BSFC kg/kW-h	Speed r/min 1500 ± 2	Torque N-m 98 ± .07	Oil Gallery Temp. °C 125 ± 1	Coolant In Temp, °C 105 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

Test Oil

Step SPEC	BSFC kg/Kw-h	Speed r/min 1500 ± 2	Torque N-m 98 ± .07	Oil Gallery Temp. °C 125 ± 1	Coolant In Temp, °C 105 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

[A] Difference between the maximum stage average reading of the entire test and the individual stage average readings.

Sequence VIBSJ
Form 10
Critical Parameter Summary - Stage 2

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

BC Oil

Step SPEC	BSFC kg/kW-h	Speed r/min 800 ± 2	Torque N-m 26 ± .07	Oil Gallery Temp. °C 105 ± 1	Coolant In Temp, °C 95 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

Test Oil

Step SPEC	BSFC kg/Kw-h	Speed r/min 800 ± 2	Torque N-m 26 ± .07	Oil Gallery Temp. °C 105 ± 1	Coolant In Temp, °C 95 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

[A] Difference between the maximum stage average reading of the entire test and the individual stage average readings.

Sequence VIBSJ
Form 11
Critical Parameter Summary - Stage 3

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

BC Oil

Step SPEC	BSFC kg/kW-h	Speed r/min 800 ± 2	Torque N-m 26 ± .07	Oil Gallery Temp. °C 70 ± 1	Coolant In Temp, °C 60 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

Test Oil

Step SPEC	BSFC kg/Kw-h	Speed r/min 800 ± 2	Torque N-m 26 ± .07	Oil Gallery Temp. °C 70 ± 1	Coolant In Temp, °C 60 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

[A] Difference between the maximum stage average reading of the entire test and the individual stage average readings.

Sequence VIBSJ
Form 12
Critical Parameter Summary - Stage 4

Lab: CC	**Date Completed:** YYYYMMDD	**Time Completed:** HH:MM	
Test Number			
Test Stand: CCCCC	**Runs On The Stand:** CCCC	**Engine No.** CCCCCCCCCCCCCC	**Runs on Engine:** CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

BC Oil

Step SPEC	BSFC kg/kW-h	Speed r/min 1500 ± 2	Torque N-m 98 ± .07	Oil Gallery Temp. °C 70 ± 1	Coolant In Temp, °C 60 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

Test Oil

Step SPEC	BSFC kg/Kw-h	Speed r/min 1500 ± 2	Torque N-m 98 ± .07	Oil Gallery Temp. °C 70 ± 1	Coolant In Temp, °C 60 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

[A] Difference between the maximum stage average reading of the entire test and the individual stage average readings.

Sequence VIBSJ
Form 13
Critical Parameter Summary – Stage 5

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

BC Oil

Step SPEC	BSFC kg/kW-h	Speed r/min 1500 ± 2	Torque N-m 98 ± .07	Oil Gallery Temp. °C 45 ± 1	Coolant In Temp, °C 45 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

Test Oil

Step SPEC	BSFC kg/Kw-h	Speed r/min 1500 ± 2	Torque N-m 98 ± .07	Oil Gallery Temp. °C 45 ± 1	Coolant In Temp, °C 45 ± 1	Intake Air Temp, °C 27 ± 2	Fuel Rail Temp, °C 20 ± 2	EBP kPa 104 ± .17	Fuel Flow kg/h Record	AFR 14.00-15.00	Delta [A] AFR < .50
1	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
2	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
3	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
4	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
5	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
6	S1.1234	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	
AVG.	S1.12345	S1234.1	S12.12	S123.1	S123.1	S12.1	S12.1	S123.12	S1.123	S12.12	S12.12
SD	S1.1234										
C.V.	S1.12										

[A] Difference between the maximum stage average reading of the entire test and the individual stage average readings.

Sequence VIBSJ
Form 14
Downtime And Other Comments

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

Number of Downtime Occurrences		S12	
Test Hours	**Date**	**Downtime**	**Reasons**
CCCCCC	CCCCCCCC	CCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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Total Downtime		HHH:MM	

Other Comments	
Number of Comment Lines	S1
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Sequence VIBSJ
Form 14A
Downtime And Other Comments

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM	
Test Number			
Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

Number of Downtime Occurrences		S12	
Test Hours	**Date**	**Downtime**	**Reasons**
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CCCCCC	CCCCCCCC	CCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCC	CCCCCCCC	CCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCC	CCCCCCCC	CCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCC	CCCCCCCC	CCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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Total Downtime		HHH:MM	

Other Comments	
Number of Comment Lines	S1
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Sequence VIBSJ
Form 14B
Downtime And Other Comments

Lab: CC	Date Completed: YYYYMMDD	Time Completed: HH:MM
Test Number		

Test Stand: CCCCC	Runs On The Stand: CCCC	Engine No. CCCCCCCCCCCCCCC	Runs on Engine: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC			

Number of Downtime Occurrences		S12	
Test Hours	**Date**	**Downtime**	**Reasons**
CCCCCC	CCCCCCCC	CCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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Total Downtime		HHH:MM	

Other Comments	
Number of Comment Lines	S1
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Sequence VIBSJ
Form 15
American Chemistry Council Code of Practice
Test Laboratory Conformance Statement

Test Laboratory	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Test Sponsor	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Formulation / Stand Code	CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC				
Test Number	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Start Date	YYYYMMDD	Start Time	HH:MM	Time Zone	CCC

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 ___C___ No___C___ *

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 ___C___ No___C___*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory? Yes ___C___* No___C___

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 ___C___* No___C___
(This currently applies only to specific deviations identified in the ASTM Information Letter System)

Check The Appropriate Conclusion

C	Operational review of this test indicates that the results should be included in the Multiple Test Acceptance Criteria calculations.
C	*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
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Signature Date

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