Report On
Sequence IIIHB Evaluation
Version
IIIHB VERSION 20170308 Beta
Conducted For
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

C	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

CC	NR = Non-reference oil test
	RO = Reference oil test

Test Number					
Test Stand	CCCCC	Runs Since Last Calibration	CCCC	Total Runs on Stand	CCCCC
Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Formulation/Stand	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Alternate Codes	CCCCCCCCCCCCCCC		CCCCCCCCCCCCCCC		CCCCCCCCCCCCCCC
EOT Date	YYYYMMDD		EOT Time		HH:MM

In my opinion this test CCCCCCC been conducted in a valid manner in accordance with the Test Method, D XXXX, and appropriate amendments. The remarks included in the report describe the anomalies associated with this test.

Submitted By: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Testing Laboratory

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Signature

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Typed Name

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Title

Sequence IIIHB
Form 2
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Sequence IIIHB
Form 3
Summary of Test Method

The Sequence IIIHB Test is a fired-engine, dynamometer lubricant test for evaluating automotive engine oils for certain high-temperature performance characteristics. 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 IIIHB Test utilizes a 2012 Chrysler Pentastar 3.6 Liter, water-cooled, 4 cycle, V-6 engine as the test apparatus. The Sequence IIIHB test engine is an overhead valve design (OHV) and uses dual overhead camshafts operating both intake and exhaust valves. The engine uses two intake and two exhaust valve per cylinder. The test engine is overhauled prior to each test, during which critical engine dimensions are measured and rated or measured parts (pistons, rings, etc.) are replaced.

The Sequence IIIHB Test consists 90 hours of engine operation at moderately high speed, load, and temperature conditions. The 90-hour segment is broken down into four 20-hour test segments and one 10-hour segment. Following each 20-hour segment, the 10 hour segment, and the 10-minute operational check, oil samples are drawn from the engine. The ICP analysis of the 20-hour segment samples and 10 hour segment samples are compared to the ICP analysis of the initial sample to determine the phosphorus retention of the test oil.

The Sequence IIIHB Test is operated at the following test states during the 90-hour portion of the test:

Quantity	Set Point
Engine Speed	3900 r/min
Engine Load	250 N·m
Oil Temperature, Block	151° C
Coolant Outlet Temperature	115° C
Fuel Temperature	30° C
Intake Air Temperature	35° C
Intake Air Pressure	0.05 kPa
Intake Air Dew Point	16.1° C
Exhaust Back Pressure	4.5 kPa
Engine Coolant Flow	170 L/min
Coolant Pressure	200 kPa

Sequence IIIHB
Form 4

Test Result Summary

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code			CCCCCCCCCCCCCCCCCCC
Formulation Stand Code			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Date Started	YYYYMMDD	Engine No.	CCCCCCCCCCCCCC
Time Started	HH:MM	Fuel Batch	CCCCCCCCCCCCCC
Date Completed	YYYYMMDD	SAE Viscosity	CCCCCCC
Time Completed	HH:MM	Reference Oil [A]	CCCCCCCCCCCCCC
Test Length	S1234		

	Phosphorus Retention %
Original Units	S123.12
Transformed Results[B]	S12.123456
Industry Correction Factor	S12.123456
Corrected Transformed Result	S12.123456
Severity Adjustment	S12.123456
Final Transformed Result	S12.123456
Final Original Unit Result	S123.12

Additional Results

Oil Consumption Hours, h [B]	S123	Oil Consumption, L	S12.12

[A] *Reference Oil Tests Only*

[B] *Test Hours at which Oil Consumption was calculated*

Sequence IIIHB
Form 5
Operational Summary

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code			CCCCCCCCCCCCCCCCCCC
Formulation Stand Code			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

	Quantity	Units	QI Threshold	EOT QI	Target	Average	Standard Deviation	Number of Samples	Number of BQD
Controlled Parameters	Speed	r/min	0.000	S12.123	3900	S1234.1	S12.123	S12345	S12345
	Load	N·m	0.000	S12.123	250	S1234.1	S12.123	S12345	S12345
	Oil, Block	°C	0.000	S12.123	151	S123.1	S12.123	S12345	S12345
	Coolant Out	°C	0.000	S12.123	115	S123.1	S12.123	S12345	S12345
	Coolant System	kPa			200	S12.1	S12.123	S12345	S12345
	Intake Air	°C	0.000	S12.123	35	S1234.1	S12.123	S12345	S12345
	Intake Air	kPa	0.000	S12.123	0.05	S1.12	S12.123	S12345	S12345
	Dew Point	°C	0.000	S12.123	16.1	S12.1	S12.123	S12345	S12345
	EBP Rt.	kPa	0.000	S12.123	4.5	S1.12	S12.123	S12345	S12345
	EBP Lt.	kPa	0.000	S12.123	4.5	S1.12	S12.123	S12345	S12345
	Fuel @ Rail	°C	0.000	S12.123	30	S1234.1	S12.123	S12345	S12345
	Fuel @ Rail	kPa			420	S123.1	S12.123	S12345	S12345
	Coolant Flow	L/min	0.000	S12.123	170	S123.1	S12.123	S12345	S12345

	Quantity	Units	Average	Standard Deviation	Number of Samples	Number of BQD
Non-controlled Parameters	Oil Sump	°C	S123.1	S12.123	S12345	S12345
	Oil Pump	°C	S123.1	S12.123	S12345	S12345
	Oil Cooler	°C	S123.1	S12.123	S12345	S12345
	Coolant In	°C	S123.1	S12.123	S12345	S12345
	Oil Gallery	kPa	S123.1	S12.123	S12345	S12345
	Oil Pump	kPa	S123.1	S12.123	S12345	S12345
	Manifold Absolute Pressure	kPaA	S12.1	S12.123	S12345	S12345
	Right Exhaust Temperature	°C	S1234.1	S12.12	S12345	S12345
	Left Exhaust Temperature	°C	S1234.1	S12.12	S12345	S12345
	Fuel Flow Rate	kg/h	S123.1	S12.123	S12345	S12345
	Crankcase	kPa	S1.123	S12.123	S12345	S12345
	Right NOx	mg/kg	S12345	S12.123	S12345	S12345
	Left NOx	mg/kg	S12345	S12.123	S12345	S12345
	AFR, Rt.		S12.12	S12.123	S12345	S12345
	AFR, Lt.		S12.12	S12.123	S12345	S12345

Sequence IIIHB
Form 6
Oil Consumption Data Plot

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code			CCCCCCCCCCCCCCCCCCCC
Formulation Stand Code			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Oil Consumption Data

Hours	S123	S123	S123	S123	**EOT**
Level low (mL)	S1234	S1234	S1234	S1234	S1234
Total Oil Consumed (L)	S12.12	S12.12	S12.12	S12.12	S12.12

Oil Consumption Plot

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Sequence IIIHB
Form 7
Used Oil Analysis Results

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code		CCCCCCCCCCCCCCCCCCC	
Formulation Stand Code		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	

Oxidation & Nitration Results						
Parameter	**Method**	**Test Hours**				**EOT**
		S12	S12	S12	S12	
DIR Oxidation	E168 IIIG Area	S1234567	S1234567	S1234567	S1234567	S1234567
DIR Nitration	E168 IIIG Area	S1234567	S1234567	S1234567	S1234567	S1234567

Total Acid Number						
Parameter	**Method**	S12	S12	S12	S12	**EOT**
TAN	D664	S12345.1	S12345.1	S12345.1	S12345.1	S12345.1
TBN	D4739	S12345.1	S12345.1	S12345.1	S12345.1	S12345.1

Metals Element Analysis – ICP Method D5185 mg/kg							
Element	**New Oil**	**Initial[A]**	S12	S12	S12	S12	**EOT**
Aluminum (Al)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Boron (B)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Calcium (Ca)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Copper (Cu)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Iron (Fe)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Potassium (K)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Magnesium (Mg)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Manganese (Mn)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Molybdenum (Mo)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Sodium (Na)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Phosphorus (P)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Lead (Pb)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Silicon (Si)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Tin (Sn)	S12345	S12345	S12345	S12345	S12345	S12345	S12345
Zinc (Zn)	S12345	S12345	S12345	S12345	S12345	S12345	S12345

[A] *Initial = At end of leveling run*

Highest Detergent Metal and Phosphorus Results by ICP (D 5185 Modified)			
Test Hour	**Detergent Metal**	**Phosphorus (P)**	**Phosphorus Retention [C]**
	mg/kg	mg/kg	Percent (%)
Initial[B]	S1234567	S1234567	
EOT	S1234567	S1234567	S123.12
Detergent Metal used for this test			CCC

[B] *Phosphorus results analyzed by IIIGB Method.*

Sequence IIIHB
Form 8
Blowby Values & Plot

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code			CCCCCCCCCCCCCCCCCCCC
Formulation Stand Code			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Blowby Plot

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Test Hours	Blowby, L/min	Test Hours	Blowby, L/min	Test Hours	Blowby, L/min
S12	S12.1	S12	S12.1	S12	S12.1
S12	S12.1	S12	S12.1		
S12	S12.1	S12	S12.1	**Average**	S12.1
S12	S12.1	S12	S12.1		
S12	S12.1	S12	S12.1		
S12	S12.1	S12	S12.1		
S12	S12.1	S12	S12.1		
S12	S12.1	S12	S12.1		
S12	S12.1	S12	S12.1		

Sequence IIIHB
Form 9
Hardware Information

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code			CCCCCCCCCCCCCCCCCCC
Formulation Stand Code			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Hardware Information	
Engine Build Date	YYYYMMDD
Block Serial Number	CCCCCCCCCC
Ring Batch Code	CCCCC
Oil Control (OC) Ring Batch Code	CCC
Expander Ring (EXP) Batch Code	CCC
Cylinder Head Serial Number, Left	CCCCCCCCCC
Cylinder Head Serial Number, Right	CCCCCCCCCC
Lab Block Number	CCCCCCCCCC
Piston Batch Code	CCCCC

Cylinder Bore Measurements								
Cylinder	Transverse				Longitudinal			
	Top	Middle	Bottom	Taper	Top	Middle	Bottom	Taper
2	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123
4	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123
6	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123
1	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123
3	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123
5	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123	S12.123

Cylinder Bore Measurements					
Cylinder	**Rk**	**Rpk**	**Rvk**	**Rz**	**Mr2**
2	S1.123	S1.123	S1.123	S1.123	S12.123
4	S1.123	S1.123	S1.123	S1.123	S12.123
6	S1.123	S1.123	S1.123	S1.123	S12.123
1	S1.123	S1.123	S1.123	S1.123	S12.123
3	S1.123	S1.123	S1.123	S1.123	S12.123
5	S1.123	S1.123	S1.123	S1.123	S12.123

Sequence IIIHB
Form 10
Downtime Summary

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code			CCCCCCCCCCCCCCCCCCCC
Formulation Stand Code			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Number of Downtime Occurrences			S12
Test Hours	**Date**	**Downtime**	**Reasons**
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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HHH:MM	YYYYMMDD	HHH:MM	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
		HHH:MM	**Total Downtime (hours) – Maximum allowable downtime: 24 hours**

Sequence IIIHB
Form 11
Test Comments

Lab	CC	Oil Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stand	CCCCC	Test No.	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Laboratory Oil Code			CCCCCCCCCCCCCCCCCCCC
Formulation Stand Code			CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Number of Comment Lines	S12	
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		
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Sequence IIIHB

Form 12
American Chemistry Council Code of Practice
Test Laboratory Conformance Statement

Test Laboratory	CC				
Test Sponsor	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Formulation / Stand Code	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Test Number	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
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)

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

YYYYMMDD
Date

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Typed Name

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Title