

D 6894 - Engine Oil Aeration Test

Report Packet Version No.

Method:

Conducted For:

	V = Valid	The Reference Oil/Non-Reference Oil was Evaluated In Accordance With The Test Procedure.
	I = Invalid	The Reference Oil/Non-Reference Was Not Evaluated in Accordance With The Test Procedure.

	NR = Non-Reference Oil Test
	RO = Reference Oil Test

Stand:	Stand Run:	Engine:	Engine Run:
End Of Test Date:		End Of Test Time:	
Oil Code:			
Formulation/Stand Code:			
Altcode:	Altcode:	Altcode:	

In my opinion the test _____ been conducted in a valid manner in accordance with the Test Method D6894 and the appropriate amendments through the information letter system. The remarks included in the report describe the anomalies associated with this test.

Submitted By: _____

_____ **Testing Laboratory**

_____ **Signature**

_____ **Typed Name**

_____ **Title**

**D 6894 - Engine Oil Aeration Test
Form 2
Test Results Summary**

Laboratory:	EOT Date:	EOT Time:
Test Number:		
Oil Code:		
Formulation/Stand Code:		

Test Results

Date Test Started	
Start Time	
Test Length	
TMC Oil Code^A	
Laboratory Oil Code	
SAE Viscosity	
Oil Aeration (%)	
Original Result	
Correction Factor	
Severity Adjustment	
Final Original Unit Result	

^A Reference Oil Tests Only

Last Stand Reference Results

Test Number	
Oil Code	
Test Length	
TMC Oil Code	
EOT Date	
EOT Time	
Calibration Expiration Date	
Oil Aeration (%)	
Original Result	
Correction Factor	
Final Original Unit Result	

**D 6894 - Engine Oil Aeration Test
Form 3
Operational Summary**

Laboratory:	EOT Date:	EOT Time:
Test Number:		
Oil Code:		
Formulation/Stand Code:		

Parameter	Specification	Average	Std. Dev.	Minimum	Maximum
Engine Speed, r/min	3000 ± 10				
Torque, N-m	Report				
Power, Kw	~ 153 - 160				
Fuel Flow, kg/h	Report				
Temperatures					
Coolant Out, °C	99 - 102				
Coolant In, °C	85 - 91				
Oil, °C	121 Maximum				
Intake Air	29 ± 3				
Fuel, °C	66 ± 6				
Intake Manifold, °C	163 Maximum				
Ambient, °C	Report				
Pressures					
Oil Gallery, kPa	~ 345				
Intake Manifold, kPa	Report				
Tailpipe, kPa	Report				
Exhaust Man. (L), kPa	~ 118				
Exhaust Man. (R), kPa	~ 118				
Crankcase, kPa	Report				
In. Air Restriction, kPa	2.5 - 5.0				

Operational Summary

**D 6894 - Engine Oil Aeration Test
Form 4
Aeration Data Summary and Oil Analysis**

Laboratory:	EOT Date:	EOT Time:
Test Number:		
Oil Code:		
Formulation/Stand Code:		

Test Hours	Graduated Cylinder No.	Initial Volume, mL	Initial Temp., °F	Vol. Reduct. Factor	Initial Vol. at 60°F, mL	Final Volume, mL	Final Temp., °F	Vol. Reduct. Factor	Final Vol. at 60°F, mL	Oil Aeration, %
	1									
	2									
	3									
	1									
	2									
	3									
	1									
	2									
	3									

Test Hours	Oil Aeration, %	
	Average	Std. Deviation

Test Hours	Parts per Million (ppm)							
	Cr	Al	Ag	Cu	Fe	Pb	Si	Sn

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Form 5

Test Fuel Analysis

Laboratory:	EOT Date:	EOT Time:
Test Number:		
Oil Code:		
Formulation/Stand Code:		
Fuel Supplier:	Batch Identifier:	

Measurement	Specification	Analysis	Method
Total Sulfur, % wt	0.03 - 0.05		D 2622
Gravity, °API	32 - 36		D 287 or D 4052
Hydrocarbon Composition			
Aromatics, % vol	28 - 35		D 1319
Olefins, % vol	Report		D 1319
Saturates, % vol	Report		D 1319
Cetane Index	Report		D 4737
Cetane Number	42 - 48		D 613
Copper Strip Corrosion	3 Maximum		D 130
Flash Point, °C	54 Maximum		D 93
Cloud Point, °C	-12 Maximum		D 2500
Pour Point, °C	-18 Maximum		D 97
Carbon Residue on 10% Residium, %	0.35 Maximum		D 524 (10% Bottoms)
Water & Sediment, % vol	0.05 Maximum		D 2709
Ash, % wt	0.01 Maximum		D 482
Viscosity, cSt @ 40°C	2.0 - 3.2		D 445
Distillation, °C			
IBP	177 - 199		D 86
10%	210 - 232		D 86
50%	249 - 277		D 86
90%	299 - 327		D 86
EP	327 - 360		D 86

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Form 6A

Unscheduled Downtime & Maintenance Summary

Laboratory:	EOT Date:	EOT Time:
Test Number:		
Oil Code:		
Formulation/Stand Code:		

Number of Downtime Occurrences			
Test Hours	Date	Downtime	Reasons
			Total Downtime

Other Comments	
Number of Comment Lines	

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Form 6B

Unscheduled Downtime & Maintenance Summary

Laboratory:	EOT Date:	EOT Time:
Test Number:		
Oil Code:		
Formulation/Stand Code:		

Number of Downtime Occurrences			
Test Hours	Date	Downtime	Reasons
Total Downtime			

Other Comments
Number of Comment Lines