

General Motors Engine Oil Aeration Test

For dexos®

Form 1

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

Test Number			
Stand	Engine	Engine Runs	Lab Runs
Test Number			
Oil Code			
Formulation/Stand Code			
SAE Viscosity Grade		Reference Oil Code: ^A	
Alternate Codes			
Date Started		Time Started	
Date Completed		Time Completed	
Test Length		Total Downtime	

A: Reference Oil tests only

In my opinion this test _____ been conducted in a valid manner in accordance with test procedure GMAER and appropriate amendments. The remarks included in the report describe the anomalies associated with this test.

Submitted By: _____

Testing Laboratory

Signature

Typed Name

Title

General Motors dexos® Engine Oil Aeration Test
Form 2
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**General Motors dexos® Engine Oil Aeration Test
Form 3**

Test Summary

Test Number	
Formulation Stand Code	

Test Info			
Engine Number		Engine Hours @ SOT	
Engine Run #		Labs Runs	
Oil Weight SOT (g)		Fuel Batch ID	
Oil Weight EOT (g)			
Total Oil Consumption (g)			

Test Results: Extracted Aeration Readings from Aeration vs. Time Curve at 100 kPaA	
	Test Oil Result
28-29 Hour Average Aeration (%)	
	Other Information
0.5 - 1 Hour Average Aeration (%)	
4-5 Hour Average Aeration (%)	
19-20 Hour Average Aeration (%)	
Maximum Micromotion Aeration (%)	
Oil Density at 160 kPaA by Micromotion, g/mL	

Post Test Pressure Sweep	
Pressure, kPaA	Average Aeration % (last 5 minutes)
84	
140	
160	

Baseline Oil Test Information			
Baseline Oil Code		Test Length	
Date Started		Time Started	
Date Completed		Time Completed	
Baseline Oil Test Results for Specification Assessment: Aeration vs. Time Curve at 100 kPaA			
		Baseline Oil Result	
28-29 Hour Average Aeration (%)			
		Other Information	
0.5 – 1 Hour Average Aeration (%)			
4-5 Hour Average Aeration (%)			
19-20 Hour Average Aeration (%)			
Maximum Micromotion Aeration (%)			
Oil Density at 160 kPaA by Micromotion, g/mL			

**General Motors dexos® Engine Oil Aeration Test
Form 5**

Oil Analysis – Test Oil

Test Number	
Formulation Stand Code	

ICP (ppm)		
Element	New	30 Hrs
Aluminum (Al)		
Copper (Cu)		
Iron (Fe)		
Silicon (Si)		

	New	30 Hrs
Viscosity at 100 °C (cSt)		

**General Motors dexos® Engine Oil Aeration Test
Form 6**

Aeration Plot – Test Oil

Test Number	
Formulation Stand Code	

**General Motors dexos® Engine Oil Aeration Test
Form 7**

Downtime Summary – Test Oil

Test Number	
Formulation Stand Code	

Number of Downtime Occurrences			
Test Hours	Date	Downtime	Reasons
			Total Downtime (hours)

**General Motors dexos® Engine Oil Aeration Test
Form 10**

Aeration Plot – Baseline Oil

Baseline Oil Test Number	
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**General Motors dexos® Engine Oil Aeration Test
Form 11**

Downtime Summary – Baseline Oil

Baseline Oil Test Number	
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Number of Downtime Occurrences			
Test Hours	Date	Downtime	Reasons
			Total Downtime (hours)

