

Report Forms
Test Method D 7038
L-33-1
Version
Conducted For

	V = Valid
	I = Invalid
	N = Results Cannot Be Interpreted (See Comment Section)

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

Test Number			
Motoring Stand:	Storage Box :	Storage Box Run :	
Date Completed:	EOT Time:		
Oil Code:			
Formulation/Stand Code:			
Alternate Codes:			

In my opinion this test	been conducted in a valid manner in accordance with ASTM Test Method D 7038 and the appropriate amendments through the information letter system. The remarks included in this report describe the anomalies associated with this test.
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Submitted By:

Testing Laboratory

Signature

Typed Name

Title

Section

Test Method D 7038
L-33-1
Form 1 – Test Results

Lab:	Motoring Stand:	Storage Box:	Storage Box Run:
Start Date:	EOT Date:	EOT Time:	Test Length:
Oil Code:			
TMC Oil Code:	Lab Oil Code:		Viscosity Grade:
Latest Information Letter Test Was Run Under:			Gear Version:
Pinion Batch:	Ring Batch:	Axle Cover Rating Template Serial No.	

Rater's Initials (After Test) :		Rater Calibration Expiration Date:		
Rust/Corrosion				
Location	RUST ^A	CORRECTION FACTOR APPLIED ^B	WEIGHTING FACTOR	WEIGHTED RUST
Differential Case:				
1. At Pinion Contact			* .087	
2. Diff. Gear Contact			* .193	
3. Diff. Gears (Side)			* .094	
4. Axle Hsg. Cover			* .169	
5. Drive Gear (Ring)			* .079	
6. Drive Pinion			* .079	
Bearing:				
7. Drive Pinion Roller			* .051	
8. Drive Pinion Cups			* .083	
9. Diff. Case Roller			* .071	
10. Diff. Case Cups			* .094	
			Original Rust, Merit	
			Correction Factor, Merit	
			Severity Adjustment, Merit	
			Final Rust, Merit	
^A Rust Level (Enter 10, 9, 8, 5 or 0): None = 10 Trace = 9 = not more than six spots, each less than 1mm in diameter Light = 8 = seven(7) or more spots less than 1mm in diameter or, one(1) or more spots greater or equal to 1mm in diameter with a combined area of all the spots no greater than 1% of the total rated component surface. Moderate = 5 = in excess of above and up to 5% of considered surface Heavy = 0 = covering more than 5% of considered surface				
^B Correction factor of +1 to be applied to locations 2 and 3 for AAM hardware only.				

Remarks: Note presence, location and amount of additional deposit-stain, sludge, etc.

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Form 2
Last Reference Information & Operational Validity Summary

Lab:	Motoring Stand :
Storage Box :	Storage Box Run :
Oil Code :	

Last Reference Oil Calibrating Stand Information - Fill Out For Non-reference Oil Tests Only		
Motoring Stand:	Storage Box :	Storage Box Run:
Date Completed:	TMC Oil Code:	
Gear Version:	Pinion Batch:	Ring Batch:

Operator's Initials:

Turning Torques		
Pinion, lbf-in.	Break:	Turn:
Full Assembly, lbf-in.	Break :	Turn:

Warm-Up		
Date/Time	Start:	Finish:
Oil Temperature °F	Start :	Finish:

Motoring Phase			
Date/Time	Start:	Finish:	
Pinion Speed, r/min	Average:	Maximum:	Minimum:
Oil Temperature, °F	Average:	Maximum:	Minimum:

Storage Phase			
Date/Time	Start :	Finish:	
Oil Temperature, °F	Average:	Maximum:	Minimum:

Percent Deviation						
Controlled Parameter	Motoring Phase			Storage Phase		
	Allowable % Out	This Test % Out	Actual Time Out min:s	Allowable % Out	This Test % Out	Actual Time Out min:s
Oil Temperature	5			4		
Oven Fan Speed				10		

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Form 3
Pre Test Rating ^A

Lab:	Motoring Stand:
Storage Box :	Storage Box Run:
Oil Code:	

Match No.: _____ Date: _____ Rated By: _____

Differential Case

Area 1. At Pinion Contact: _____

Area 2. At Differential Gear Contact: _____

Area 3. Differential Gears (Side Gears): _____

Area 4. Axle Housing Cover: _____

Area 5. Drive Gears (Ring): _____

Area 6. Drive Pinion: _____

Area 7. Drive Pinion Rollers: _____

Area 8. Drive Pinion Cups: _____

Area 9. Differential Case Rollers: _____

Area 10. Differential Case Cups: _____

^A After Abrasive Blasting

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Form 4
Lost Time and Comments

Lab:	Motoring Stand :
Storage Box:	Storage Box Run:
Oil Code:	

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

[illegible]

Test Method D 7038
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Form 4A
Lost Time and Comments

Lab:	Motoring Stand :
Storage Box:	Storage Box Run:
Oil Code:	

[illegible][illegible]

Test Method D 7038
L-33-1
Form 4B
Lost Time and Comments

Lab:	Motoring Stand :
Storage Box:	Storage Box Run:
Oil Code:	

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

[illegible]