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.

Submitted By: _____

_____
Testing Laboratory

_____
Signature

_____
Typed Name

_____
Title

_____
Section

Test Method D 7038
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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 **Differential Case:**	**RUST** [A]	**CORRECTION FACTOR APPLIED** [B]	**WEIGHTING FACTOR**	**WEIGHTED RUST**
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					
	Motoring Phase			Storage Phase		
Controlled Parameter	Allowable % Out	This Test % Out	Actual Time Out min:s	Allowable % Out	This Test % Out	Actual Time Out min:s
Oil Temperature	5			4		

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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)	

Other Comments	
Number of Comment Lines	

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Form 4A
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)	

Other Comments	
Number of Comment Lines	

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)	

Other Comments	
Number of Comment Lines	