

**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

<b>Test Number</b>			
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.	

<b>Rater's Initials (After Test) :</b>			
Rust/Corrosion			
Location	RUST <sup>A</sup>	WEIGHTING FACTOR	WEIGHTED RUST
<b>Differential Case:</b>			
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	
<b>Bearing:</b>			
7. Drive Pinion Roller		* .051	
8. Drive Pinion Cups		* .083	
9. Diff. Case Roller		* .071	
10. Diff. Case Cups		* .094	
		<b>Original Rust, Merit</b>	
		<b>Correction Factor, Merit</b>	
		<b>Severity Adjustment, Merit</b>	
		<b>Final Rust, Merit</b>	
<sup>A</sup> 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			

<p><b>Remarks:</b> Note presence, location and amount of additional deposit-stain, sludge, etc.</p>
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**Test Method D7038**

**L-33-1**

**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:

<b>Turning Torques</b>		
Pinion, lbf-in.	Break:	Turn:
Full Assembly, lbf-in.	Break :	Turn:

<b>Warm-Up</b>		
Time (h)	Start:	Finish:
Oil Temperature °F	Start :	Finish:

<b>Motoring Phase</b>			
Time (h)	Start:	Finish:	
Pinion Speed, r/min	Average:	Maximum:	Minimum:
Oil Temperature, °F	Average:	Maximum:	Minimum:

<b>Storage Phase</b>			
Time (h)	Start :	Finish:	
Oil Temperature, °F	Average:	Maximum:	Minimum:

<b>Percent Deviation</b>						
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		

**Test Method D 7038**  
**L-33-1**  
**Form 3**  
**Pre Test Rating <sup>A</sup>**

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: \_\_\_\_\_  
\_\_\_\_\_

<sup>A</sup> After Abrasive Blasting





