

**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
L-33-1
Form 1
Test Result Summary**

Oil Test			
Lab	Motoring Stand	Storage Box	Storage Box Run
Start Date	Date Completed	End of Test Time	Test Length
TMC Oil Code	Laboratory Oil Code		Viscosity Grade
Oil Code:			
Formulation Stand Code:			
Latest Information Letter Test Was Run Under:			
Gear Version:			
Pinion Batch:		Ring Batch:	

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:

Rust/Corrosion Pass/Fail Parameters			
	Final	Area 4	Lowest of Areas 1-3, 5-10
Original Merit Results			
Correction Factor ^A			
Severity Adjustments			
Final Merit Results			

^A At the present time there are no industry correction factors. enter 0.00 .

**Test Method D 7038
L-33-1
Form 2
Rating Summary**

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

Rater's Initials (After Test)			
Rust/Corrosion			
Location			
DIFFERENTIAL CASE:	RUST ^A	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	
Final Rust/Corrosion Merit Rating			
^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			

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

**Test Method D7038
L-33-1
Form 3
Operational Validity Summary**

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

Operator's Initials

TURNING TORQUES:		
Pinion, lbf-in.	Break	Turn
Full Assembly, lbf-in.	Break	Turn

Warm-Up:		
Time (h)	Start	Finish
Oil Temperature °F	Start	Finish

MOTORING PHASE:			
Time (h)	Start		Finish
Pinion Speed, r/min	Avg.	Max.	Min.
Oil Temperature, °F	Avg.	Max.	Min.

STORAGE PHASE:			
Time (h)	Start		Finish
Oil Temperature, °F	Avg.	Max.	Min.

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		

**Test Method D 7038
L-33-1
Form 4
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

