

**TEST METHOD D8165
L-37-1 Load Evaluation**

VERSION

CONDUCTED FOR:

	V = Valid
	I = Invalid
	N = Results cannot be interpreted (Refer to comment section)

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

Test Number			
Test Stand:		Stand Run Number:	
Date Completed:		Time Completed:	
Oil Code:			
Formulation/Stand Code:			
Alternate Codes:			
Test Hardware ^A :		Test Version ^B :	

In my opinion this test _____ been conducted in a valid manner in accordance with Test Method D8165 and the appropriate amendments through the information letter system. The remarks included in this report describe the anomalies associated with this test.

^A Nonlubrited or Lubrited

^B Standard or Canadian

Submitted By: _____

_____ Testing Laboratory

_____ Signature

_____ Typed Name

_____ Title

_____ Section

TEST METHOD D8165
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Form 1
Test Result Summary Sheet

Oil Test			
Lab:	Stand:	Stand Run :	
Start Date:	Date Completed:	EOT Time:	Test Length:
TMC Oil Code:	Laboratory Oil Code:	Viscosity Grade:	
Oil Code:			
Formulation Stand Code:			
Latest Information Letter Test Was Run Under:			
Test Hardware:		Test Version:	
Batch:	Pinion Batch:	Ring Batch:	

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

	Ring Gear Results				
	Wear	Rippling	Ridging	Pitting/Spalling	Scoring
Original Merit Results ^C					
Transformed Results					
Correction Factor					
Corrected Transformed Results					
Severity Adjustment ^A					
Final Transformed Results					
Final Merit Results					

	Pinion Gear Results				
	Wear	Rippling	Ridging	Pitting/Spalling	Scoring
Original Merit Results ^{B,C}					
Transformed Results					
Correction Factor					
Corrected Transformed Results					
Severity Adjustment ^A					
Final Transformed Results					
Final Merit Results					

^A At the present time there are no severity adjustments
^B With any applicable exclusions applied
^C If tooth breakage occurs, leave results blank and report in comment section

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Form 3

Operational Summary Sheet

Lab:	Stand :	Stand Run:
Oil Code:	Test Version:	

Pinion Torque Checks – Full Axle Assembly		
	Break	Turn
Before Test (N·m)		
After Test - hot (N·m)		
After Test - cool (N·m)		

Backlash Measurements							
Laboratory's Position Measurements							
	1	2	3	4	Minimum	Maximum	Average
Before Test (mm)							
After Test (mm)							
Difference (mm)							

General Operating Conditions				
Gear Conditioning Phase:	Start	Finish	Average	Total
1. Time (hh:mm)				
Time (mmmmmm)				
	Maximum	Minimum	Average	
2. Gear-lubricant Temperature (°C)				
3. Dyno Torque 1 (N·m)				
Dyno Torque 2 (N·m)				
4. Dyno Speed 1 (r/min)				
Dyno Speed 2 (r/min)				
Gear Testing Phase:	Start	Finish	Average	Total
1. Time (hh:mm)				
Time (mmmmmm)				
	Maximum	Minimum	Average	
2. Gear-lubricant Temperature (°C)				
3. Dyno Torque 1 (N·m)				
Dyno Torque 2 (N·m)				
4. Dyno Speed 1 (r/min)				
Dyno Speed 2 (r/min)				

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Form 5
Operational Validity Summary

Lab:	Stand:	Stand Run:
Oil Code:		
Test Hardware:		Test Version:

Controlled Parameter	Gear Conditioning			Gear Testing		
	Allowable % Out	This Test % Out	Actual Time Out min:s	Allowable % Out	This Test % Out	Actual Time Out min:s
Gear Oil Temperature	5			5		
Wheel Speed	5			5		
Wheel Speed 2	5			5		
Dyno Load	5			5		
Dyno Load 2	5			5		

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Form 6

Drive-side Pattern Photo

Lab:	Stand:	Stand Run:
Oil Code:	Test Version:	