

**TEST METHOD D6121
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 D6121 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 D6121
L-37-1
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:	
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:
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

TEST METHOD D6121

L-37-1

Form 3

Operational Summary Sheet

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

Pinion Torque Checks – Full Axle Assembly		
	Break	Turn
Before Test (lbf-in.)		
After Test - hot (lbf-in.)		
After Test - cool (lbf-in.)		

Backlash Measurements							
Laboratory's Position Measurements							
	1	2	3	4	Minimum	Maximum	Average
Before Test (in.)							
After Test (in.)							
Difference (in.)							
Manufacturer's Measurements							
Manufacturer's Specification				Manufacturer's Measurements			
0.004 – 0.012 (in.)							

General Operating Conditions				
Gear Conditioning Phase:	Start	Finish	Average	Total
1. Time (hh:mm)				
Time (mmmm)				
	Maximum	Minimum	Average	
2. Gear-lubricant Temperature (°F)				
3. Dyno Torque 1 (lbf-ft)				
Dyno Torque 2 (lbf-ft)				
4. Dyno Speed 1 (r/min)				
Dyno Speed 2 (r/min)				
Gear Testing Phase:				
1. Time (hh:mm)				
Time (mmmm)				
	Maximum	Minimum	Average	
2. Gear-lubricant Temperature (°F)				
3. Dyno Torque 1 (lbf-ft)				
Dyno Torque 2 (lbf-ft)				
4. Dyno Speed 1 (r/min)				
Dyno Speed 2 (r/min)				

TEST METHOD D6121
L-37-1
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		