

TEST METHOD D6121
L-37 Load Evaluation

VERSION L37 VERSION 20050418 BETA

CONDUCTED FOR:

CC

CC

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

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

Test Number			
Test Stand: CCCCC	Stand Run Number: CCCC		
Date Completed: YYYYMMDD	Time Completed: HH:MM		
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation/Stand Code: CC-CCCCCCCC-C-C-CCCCCC-CC-CC-CCCC			
Alternate Codes: CCCCCCCCCCCCCC	CCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCC
Test Hardware ^A : CCCCCCCCCCCC	Test Version ^B : CCCCCCCC		

In my opinion this test CCCCCCCC 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: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Testing Laboratory

Signature Image

Signature

CC

Typed Name

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Title

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Section

TEST METHOD D6121
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Form 1
Test Result Summary Sheet

Oil Test			
Lab: CC	Stand: CCCCC		Stand Run : CCCC
Start Date: YYYYMMDD	Date Completed: YYYYMMDD	EOT Time: HH:MM	Test Length: HH:MM
TMC Oil Code: CCCCCC	Laboratory Oil Code: CCCCCCCCCCCCCCCCCCCCC	Viscosity Grade: CCCCCC	
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Formulation Stand Code: CC-CCCCCCCC-C-C-CCCCCC-CC-CC-CCCC			
Latest Information Letter Test Was Run Under: CCCCCCCC			
Test Hardware: CCCCCCCCCC	Test Version: CCCCCCCC		
Pinion Batch: CCCCCCCC	Ring Batch: CCCCCCCC		

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

	Ring Gear Results				
	Wear	Rippling	Ridging	Pitting/Spalling	Scoring
Original Merit Results ^C	S12	S12	S12	S12.1	S12
Transformed Results	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Correction Factor	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Corrected Transformed Results	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Severity Adjustment ^A	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Final Transformed Results	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Final Merit Results	S12.1	S12.1	S12.1	S12.1	S12.1

	Pinion Gear Results				
	Wear	Rippling	Ridging	Pitting/Spalling	Scoring
Original Merit Results ^{B,C}	S12	S12	S12	S12.1	S12
Transformed Results	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Correction Factor	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Corrected Transformed Results	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Severity Adjustment ^A	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Final Transformed Results	S12.1234	S12.1234	S12.1234	S12.1234	S12.1234
Final Merit Results	S12.1	S12.1	S12.1	S12.1	S12.1

^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 2

Gear Tooth Surface Condition

Lab: CC	Stand: CCCCC	Stand Run: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		Test Version: CCCCCCCC

Gear Batch Identification		
Test Hardware: CCCCCCCCCC	Pinion Batch: CCCCCCCC	Ring Batch: CCCCCCCC
Match Number: CCCCC	Assembly Date: CCCCCCCC	
Pattern Contact Length Rating: S	Pattern Contact Flank Rating: S1	

Gear Test Phase – After Completion of Pinion and Ring Gear Drive Side Inspection			
Rater's Initials: CCC			
Gear Condition	Original Ring Rating	Original Pinion Rating	
Burnish	CCCCCCCCCCBBBBBBBBCCCCCCCCCCCC		CCCCCCCCCCBBBBBBBBCCCCCCCCCCCC
Discoloration	S12		S12
Corrosion	S12		S12
Deposits	S12		S12
	Original Ring Rating	Original Pinion Rating	Pinion Rating With Exclusion Applied If Applicable
Wear	S12	S12	S12
Rippling	S12	S12	S12
Ridging	S12	S12	S12
Pitting/Spalling	S12.1	S12.1	S12.1
Scoring	S12	S12	S12

TEST METHOD D6121**L-37****Form 3****Operational Summary Sheet**

Lab: CC	Stand : CCCCC	Stand Run: CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		Test Version: CCCCCCCC

Pinion Torque Checks – Full Axle Assembly		
	Break	Turn
Before Test (lbf-in.)	S12345	S12345
After Test - hot (lbf-in.)	S12345	S12345
After Test - cool (lbf-in.)	S12345	S12345

Back Lash Measurements			
	Maximum	Minimum	Average
Before Test (in.)	S1.123	S1.123	S1.123
After Test (in.)	S1.123	S1.123	S1.123
Difference (in.)			S1.123

General Operating Conditions				
Gear Conditioning Phase:	Start	Finish	Average	Total
1. Time (hh:mm)	HH:MM	HH:MM		HHH:MM
Time (mmmmm)				CCCCC
	Maximum	Minimum	Average	
2. Gear-lubricant Temperature (°F)	S123.1	S123.1	S123.1	
3. Dyno Torque 1 (lbf-ft)	S123.1	S123.1	S123.1	
Dyno Torque 2 (lbf-ft)	S123.1	S123.1	S123.1	
4. Dyno Speed 1 (r/min)	S123.1	S123.1	S123.1	
Dyno Speed 2 (r/min)	S123.1	S123.1	S123.1	
Gear Testing Phase:				
1. Time (hh:mm)	HH:MM	HH:MM		HHH:MM
Time (mmmmm)				CCCCC
	Maximum	Minimum	Average	
2. Gear-lubricant Temperature (°F)	S123.1	S123.1	S123.1	
3. Dyno Torque 1 (lbf-ft)	S123.1	S123.1	S123.1	
Dyno Torque 2 (lbf-ft)	S123.1	S123.1	S123.1	
4. Dyno Speed 1 (r/min)	S123.1	S123.1	S123.1	
Dyno Speed 2 (r/min)	S123.1	S123.1	S123.1	

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Form 4

Lab:	CC	Stand:	CCCCC	Stand Run:	CCCC
Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC					
Test Hardware: CCCCCCCCCCCC			Test Version: CCCCCCCC		

Test Lost Time:

Record the time shutdown, time off test conditions, early inspections/termination with reason and minimum oil temperature in °F.

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Form 4A

Lost Time and Comments Sheet

Lab:	CC	Stand:	CCCCC	Stand Run:	CCCC
Oil Code:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Test Hardware:	CCCCCCCCCCCC		Test Version:	CCCCCCCC	

Test Lost Time:

Record the time shutdown, time off test conditions, early inspections/termination with reason and minimum oil temperature in degrees °F.

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Form 4B

Lost Time and Comments Sheet

Lab:	CC	Stand:	CCCCC	Stand Run:	CCCC
Oil Code:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
Test Hardware:	CCCCCCCCCCCC			Test Version:	CCCCCCCC

Test Lost Time:

Record the time shutdown, time off test conditions, early inspections/termination with reason and minimum oil temperature in degrees °F.

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Form 5
Operational Validity Summary

Lab:	CC	Stand: CCCCC	Stand Run:	CCCC
Oil Code:	CC			
Test Hardware:	CCCCCCCCCCCC		Test Version:	CCCCCC

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	S123.1	CCCCCC	5	S123.1	CCCCCC
Wheel Speed	5	S123.1	CCCCCC	5	S123.1	CCCCCC
Wheel Speed 2	5	S123.1	CCCCCC	5	S123.1	CCCCCC
Dyno Load	5	S123.1	CCCCCC	5	S123.1	CCCCCC
Dyno Load 2	5	S123.1	CCCCCC	5	S123.1	CCCCCC