TEST METHOD D6121 L-37 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					
		Tes	st Num	ber			
Test Stand:			Stand	Run Number:			
Date Completed:			Time (Completed:			
Oil Code:			ı				
Formulati	on/Stand Code:						
Alternate	Codes:						
Test Hard	ware ^A :		Test V	ersion B:			
D6121 an describe t	he anomalies asso	been conduction been conductin been conduction been conduction been conduction been conduction		a valid manner ion letter system			
onlubrited of tandard or C		Culturaitte d Dru					
		Submitted By:			Testing L	aborator	у
					Sign	ature	
					Typed	Name	
					Ti	tle	
					Sec	tion	

TEST METHOD D6121

L-37

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:			Viscosity Grade:	
Oil Code:					
Formulation Stand Code:					
Latest Information Letter	Гest Was Run Under	r:			
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					<u>-</u> .
Transformed Results					
Correction Factor					
Corrected Transformed					
Results					
Severity Adjustment ^A			_		
Final Transformed Results					
Final Merit Results					

 $^{^{\}rm A}$ AT THE PRESENT TIME THERE ARE NO SEVERITY ADJUSTMENTS $^{\rm B}$ WITH ANY APPLICABLE EXCLUSIONS APPLIED $^{\rm C}$ IF TOOTH BREAKAGE OCCURS, LEAVE RESULTS BLANK AND REPORT IN COMMENT SECTION

TEST METHOD D6121 L-37 Form 2

Gear Tooth Surface Condition

Lab:	Stand: Stand Run:							
Oil Code:				Test Version:				
				·				
	Gear Batch Identification							
Test Hardware:		Pinion Batch:		Ring Batch:				
Match Number:		Assem	bly Date:					
Pattern Contact Lo	ength Rating:	Patterr	Contact F	Flank Rating:				
Gear	Test Phase – After Com	pletion of Pinion	and Ring	Gear Drive Side Inspection				
Rater's Initials:				•				
Gear Condition	Original Ring	g Rating		Original Pinion Rating				
Burnish		-						
Discoloration								
Corrosion								
Deposits								
	Original Ring Rating	Original Pinio	n Rating	Pinion Rating With Exclusion Applied If Applicable				
Wear								
Rippling								
Ridging								
Pitting/Spalling								
Scoring								
	Test Method Defined	Rating Exclusion	Commen	nts (See Annex A12)				
Total Lines of Te	st Method Exclusions:							

TEST METHOD D6121 L-37 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.)					

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

General Operating Conditions						
Gear Conditioning Phase:	Start	Finish	Average	Total		
1. Time (hh:mm)						
Time (mmmmm)						
	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 (mmmmm)						
	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

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Form 4

Lost Time and Comments Sheet

Lab: Stand:		Stand:	Stand Run:
Oil Code:		- Contract	O WATE TOWN
Test Hardy	vare:		Test Version:
	e: shutdown, tim	ne off test conditio	ns, early inspections/termination with reason and
		Occurrences	
Test Hours	Date	Downtime	
			Total Downtime (hours)
Oth	er Comme	nts	
	of Commen		
2 1 0 1 2 2 2 2			

TEST METHOD D6121 L-37 Form 4A

Lost Time and Comments Sheet

Lab:	Lab: Stand:		Stand Run:	
Oil Code:		•		
Test Hardwa	are:		[Test Version:
Test Lost Time:			·	
Record the time s minimum oil tem	hutdown, time of perature in degree	f test conditions, e es °F.	arly inspections/termination with reason	n and
Number of I	Downtime Oc	ccurrences		
Test Hours	Date	Downtime		Reasons
			Tota	l Downtime (hours)
Other	Comments			
	f Comment L			

TEST METHOD D6121 L-37 Form 4B

Lost Time and Comments Sheet

Lab:		Stand:	Stand Run:					
Oil Code:		~						
Test Hardwa	ire:		Test Version:					
Test Lost Time:	hutdown, time o	ff test conditions, e	early inspections/termination with reason and					
Number of Downtime Occurrences								
Test Hours	Date	Downtime	Reasons					
			Total Downtime (hours)					
Other	· Comments	;						
	Comment I							

TEST METHOD D6121

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Form 5 Operational Validity Summary

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

	Gea	ar Condition	ing	Gear Testing		
Controlled Parameter	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		