Report Forms Test Method D 7038 L-33-1 Version Conducted For

	V =	V = Valid					
	I = Invalid						
	N = Results Cannot Be Interpreted (See Comment Section)						
	•		= Non-Reference 7 = Reference Oil R			_	
		7	Test Number				
Motoring Stand	d:		Storage Box :		Storage Box Run:		
Date Complete	d:		EOT Time:				
Oil Code:							
Formulation/St	and Code:						
Alternate Code	es:						
In my opinion this the appropriate ar with this test.					th ASTM Test Method D port describe the anomali		
		Submitted By:			T 1		
				Testii	ng Laboratory		
					Signature		
				Ту	yped Name		
					Title		

Section

Test Method D 7038 L-33-1

Form 1 – Test Results

Lab:	Motoring S	Stand:	Storage	Storage Box:		Storage Box Run:	
Start Date:	EOT Date:			EOT Time:		Test Length:	
Oil Code:							
TMC Oil Code: Lab Oi		Lab Oil Co	de:				Viscosity Grade:
Latest Informa	Jnder:		Gear Ver	sion:			
Pinion Batch: Ring Batch:		:	Axle C	Cover Rati	ng Tem	nplate Serial No.	

Differer		ocation					•				
Differei		ocation				Rust/Corrosion					
Differei	ntial (l			CORRECTION	WEIGHTING	WEIGHTED			
		Case:			RUST A	FACTOR	FACTOR	RUST			
						APPLIED ^B					
1. At I	Pinion	Contac	et				* .087				
2. Diff	f. Gear	r Conta	.ct				* .193				
3. Diff	f. Gea	rs (Side)				* .094				
		. Cover	/				* .169				
		ar (Ring					* .079				
6. Driv			<i>⊃/</i>				* .079				
Bearing		1011					.075				
		ion Rol	ller				* .051				
		ion Cu					* .083				
		Rollei					* .071				
10. Diff			L				* .094				
10. DIII	ı. Case	Cups	_	_							
							Original Rust, Merit				
							Correction Factor, Merit	+			
							Severity Adjustment,				
							Merit				
							Final Rust, Merit				
A Rust Lev	el (Ente		5 or 0):							
None	=	10		4	. 41	1. 1 41 1					
Trace	=	9 8				each less than 1mm in dia		14- 1 :			
Light	_	ð	=	seven(/)	or more spots les	ss man 1mm in diameter	or, one(1) or more spots greater or equa greater than 1% of the total rated compo	I W IMM IN			
Moderate	=	5	=			to 5% of considered surf		nem surface.			
Heavy	=	0	=			f considered surface	lacc				
,		Ŭ		20 , cring	more man 570 of	Compacion bullace					
R.O.	C .	C + 1 /		1. 1. 1	.: 0 100	AAM hardware only.					

 $\pmb{Remarks:} \ \text{Note presence, location and amount of additional deposit-stain, sludge, etc.}$

Test Method D7038 L-33-1

Form 2 Last Reference Information & Operational Validity Summary

Lab:			Motoring	Stand :			
Storage Box :			Storage F				
Oil Code:			Storage	JON ICUI			
on code .							
Last Reference Oil C	alibratii	ng Stand Informatio	on - Fill Out F	or Non-	-reference Oil Tests Only		
Motoring Stand:		Storage Box :		Storage Box Run:			
Date Completed:			TMC Oil Co	de:			
Gear Version:		Pinion Batch:		Ri	ng Batch:		
				-	-		
		Operator's Initials	:				
		•					
Turning Torques							
Pinion, lbf-in.		Break:	Break:		Turn:		
Full Assembly, lbf-in.		Break:		Turn:			
Warm-Up							
Date/Time	Start:			Finish:			
Oil Temperature °F	Start:			Finish:			
Motoring Phase							
Date/Time Start:					1:		
Pinion Speed, r/min	Avera	Average: M			Minimum:		
Oil Temperature, °F Average:		ge: Maximum:		Minimum:			
	-						
Storage Phase							
Date/Time	Start :			Finish	1:		

Percent Deviation						
	Motoring Phase				Storage Ph	ase
Controlled Parameter	Allowable % Out	This Test % Out	Actual Time Out min:s	Allowable % Out	This Test % Out	Actual Time Out min:s
Oil Temperature	5			4		

Maximum:

Minimum:

Oil Temperature, °F

Average:

Test Method D 7038 L-33-1 Form 3 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 Ge	ar Contact:						
			_				
Area 3. Differential Gears	(Side Gears):						
Area 4. Axle Housing Cov	rer:						
Area 5. Drive Gears (Ring):						
Area 6. Drive Pinion:							
Area 7. Drive Pinion Rolle	ers:						
4 0 D; D; C							
Area 8. Drive Pinion Cups	:						
Area 9. Differential Case I	0 allawa						
Arca 9. Differential Case I	VOIICIS.						
Area 10 Differential Case	Cupe						
Area 10. Differential Case Cups:							

^A After Abrasive Blasting

Test Method D 7038 L-33-1 Form 4 Lost Time and Comments

Lab:			Motoring Stand :
Storage Bo	ox:		Storage Box Run:
Oil Code:			· · ·
Number of	f Downtime (Occurrences	
Test Hours	Date	Downtime	Reasons
			Total Downtime (hours)
	er Comments		
Number	of Comment	Lines	

Test Method D 7038 L-33-1 Form 4A Lost Time and Comments

Lab:			Motoring Stand:
Storage Box	:		Storage Box Run:
Oil Code:			
Number of l	Downtime Oc	ccurrences	
Test Hours	Date	Downtime	Reasons
	1		Total Downtime (hours)
			Tour Bownellie (nours)
	Comments		
Number of	Comment Li	nes	

Test Method D 7038 L-33-1 Form 4B Lost Time and Comments

Lab:			Motoring Stand :
Storage Box	Κ:		Storage Box Run:
Storage Box Oil Code:			
Number of I	Downtime Oc	currences	
Test			n
Hours	Date	Downtime	Reasons
			Total Downtime (hours)
			/
Other	Comments		
Number of	f Comment L	ines	
1 (dilio er er		11105	