Report Forms L-33 VERSION 20020503

CONDUCTED FOR

TSTSPON1

TSTSPON2

	V = VALID				
LABVALII	I = INVALID				
	N = RESULTS CANNOT BE INTERPRETED (See Comment Section)				
	TITOU	NR = Non-Reference Test Oil			
	TSTOIL	RO = Reference Oil Result			

Test Number						
Motoring Stand MSTAND	Storage Box #: SBOXNUM		Storage Bo Run Numb	ox ber:		
Date Completed: DTCOM	>	EOT Time:	OT Time: EOTTIME			
Oil Code : OILCODE						
Formulation/Stand Code: FORM						
Alternate Codes:	ALTCODE1	ALTCODE2		ALTCODE3		

In my opinion this test *OPVALID* been conducted in a valid manner in accordance with the STP 512A ASTM Test Method and the appropriate amendments through the information letter system. The remarks included in this report describe the anomalies associated with this test.

SUBMITTED BY:	SUBLAB
	Testing Laboratory
	SUBSIGIM
	Signature
	SUBNAME
	Typed Name
	SUBTITLE
	Title
	SUBSECT
	Section

TEST RESULT SUMMARY

	OIL TEST						
LAB	MOTORING STAND	STORAGE BOX #	STORAGE BOX RUN #				
LAB	MSTAND	SBOXNUM	SBOXRUN				
START DATE	DATE COMPLETED	END OF TEST TIME	TEST LENGTH				
DTSTRT	DTCOMP	EOTTIME	TESTLEN				
TMC OIL CODE OILCODE			VISCOSITY GRADE				
IND	OILCODE		SAEVISC				
LABORATORY OIL CODE	E: LABOCOI	DE					
FORMULATION STAND C	CODE: FORM						
LATEST INFORMATION I	LETTER TEST WAS RUN UN	DER: INFOLETN					
GEAR VERSION: G	GEARVER						
PINION BATCH:	PINBAT	RING BATCH:	RINGBAT				

Last Reference Oil Calibrating Storage Box Information - Fill Out For Non-reference Oil Tests Only							
MOTORING STA	MOTORING STAND: MSTAND STORAGE BOX # LRSBOXNM TMC OIL CODE:LRIND DATE COMPLETED: LRDTCOMP						
GEAR VERSION	LRGERVE	R PI	NION BATCH:]	LRPINBAT	RING BA	TCH:LRRNGBAT	

RUST/CORROSION PASS/FAIL PARAMETERS						
	FINAL	AREA 4	Lowest of Areas 1-3,5-10			
Orginal Merit Results	RUST	AREA4	LOWMERIT			
Transformed Results ^A	TRUST					
Correction Factor A	RUSTCF					
Corrected Transformed Results A	TRUSTCR					
Severity Adjustments A	RUSTSA					
Final Transformed Results A	TRUSTFNL					
Final Merit Results	RUSTFNL	AREA4FNL	LOWMFNL			

^AAT THE PRESENT TIME THERE ARE NO TRANSFORMATIONS(I.E. MULTIPLY ORIGINAL RESULT * 1.0), NO CORRECTION FACTORS OR SEVERITY ADJUSTMENTS

RATING SUMMARY

LAB LAB	MOTORING STAND	MSTAND
OIL CODE OILCODE	STORAGE BOX NO.	SBOXNUM
	STORAGE BOX RUN NO.	SBOXRUN

	RUST/CO	RROSION	
LOCATION			
DIFFERENTIAL CASE:	RUST A	WEIGHTING FACTOR	WEIGHTED RUST
1. At Pinion Contact	RCDCPINC	* .06	RCPINWGT
2. Diff. Gear Contact	RCDCDFGC	* .16	RCGRCWGT
3. Diff. Gears (Side)	RCDCDFGS	* .11	RCGRSWGT
4. Axle Hsg. Cover	RCDCAXHC	* .34	RCAXHWGT
5. Drive Gear (Ring)	RCDCDGR	* .05	RCDGRWGT
6. Drive Pinion	RCDCDPIN	* .05	RCDPNWGT
BEARING:			
7. Drive Pinion Roller	RCBDPNR	* .06	RCBPRWGT
8. Drive Pinion Cups	RCBDPNC	* .07	RCBPCWGT
9. Diff. Case Roller	RCBDFCR	* .03	RCBCRWGT
10. Diff. Case Cups	RCBDFCC	* .07	RCBCCWGT
Final Rust/Corrosion Merit Rating			RUST B
Light=8=in excess ofModerate=5=in excess of		ce rating and up to 1% of considered su t rating and up to 5% of considered su	

^B Caution: The Final Merit rating for non-reference oil tests are not to be judged against category pass/fail limits.

 REMARKS: Note presence, location and amount of additional deposit-stain, sludge, etc.

 REMK1

 REMK2

 REMK3

 REMK4

 REMK5

 REMK6

OPERATIONAL VALIDITY SUMMARY

LAB LAB	MOTORING STAND	MSTAND
OIL CODE OILCODE	STORAGE BOX NO.	SBOXNUM
	STORAGE BOX RUN NO.	SBOXRUN

OPERATOR'S INITIALS OINIT

TURNING TORQUES:				
Pinion, lbf-in.	Break	TTPINBRK	Turn	TTPINTRN
Full Assembly, lbf-in.	Break	TTASSBRK	Turn	TTASSTRN
WARM-UP:				
Time (h)	Start	WUTIMEST	Finish	WUTIMEFN
Temperature °F	Start	WUTEMPST	Finish	WUTEMPFN

MOTORING PHASE:			
Time (h)	Start M	IPTIMEST Finish	MPTIMEFN
Pinion Speed, r/min	Avg. MPPSAVG	Max. MPPSMAX	Min. MPPSMIN
Oil Temperature, °F	Avg. MPOTEMPA	Max. MPOTEMPX	Min. MPOTEMPI

STORAGE PHASE:			
Time (h)	Start SF	TIMEST Finish	SPTIMEFN
Oil Temperature, °F	Avg. SPOTEMPA	Max. SPOTEMPX	Min. SPOTEMPI

PERCENT DEVIATION						
	MOTORING PHASE			STORAGE PHASE		
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	TEMPBPOT	ATOBTEMP	4	TEMPOUT	ATOTEMP

PRE TEST RATING

LAB LAB		MOTORING STAND	MSTAND	
OIL CODE OILCODE		STORAGE BOX NO. SBOXNUM		
		STORAGE BOX RUN NO.	SBOXRUN	
Match No.: MATCHNO Date: RATEDA	ATE	Rated By:	RINIT2	
		<i>u</i>		
Differential Case				
Area 1. At Pinion Contact: RDCPINC1				
RDCPINC2				
Area 2. At Differential Gear Contact: RDCDFGC1				
Area 2. At Differential Gear Contact: RDCDFGC1 RDCDFGC2 RDCDFGC1				
RDCDFGC3				
RDCDFGC4				
Area 3. Differential Gears (Side Gears): RDCDFGS1				
RDCDFGS2				
Area 4. Axle Housing Cover: RDCAXHC1				
RDCAXHC2				
Area 5. Drive Gears (Ring): RDCDGR1				
RDCDGR2				
Area 6. Drive Pinion: RDCDPIN1				
RDCDPIN2				
Area 7. Drive Pinion Rollers: RBDPNR1				
RBDPNR2				
Area 8. Drive Pinion Cups: RBDPNC1				
Area 8. Drive Pinion Cups: RBDPNC1				
Area 9. Differential Case Rollers: RBDFCR1				
RBDFCR2				
Area 10. Differential Case Cups: RBDFCC1				
RBDFCC2				
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A AFTER ABRASIVE BLASTING

LOST TIME AND COMMENTS

LAB LAB	MOTORING STAND	MSTAND
OIL CODE OILCODE	STORAGE BOX NO.	SBOXNUM
	STORAGE BOX RUN NO.	SBOXRUN

Number of Downtime Occurrences		e Occurrences	DWNOCR	
Test Hours	Date	Downtime	Reasons	
DOWNR001	DDATR001	DTIMR001	DREAR001	
TOTLDOWN		TOTLDOWN	Total Downti	me

Other Comments		
Number of Comment Lines	ТОТСОМ	
OCOMR001		

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