Report Forms
L-33
VERSION *20020503*

CONDUCTED FOR

TSTSPON1

TSTSPON2

LABVALID	V = VALID
	I = INVALID
	N = RESULTS CANNOT BE INTERPRETED (See Comment Section)

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

Test Number			
Motoring Stand *MSTAND*	Storage Box #: *SBOXNUM*	Storage Box Run Number: *SBOXRUN*	
Date Completed: *DTCOMP*		EOT 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

L-33
FORM 1

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: LABOCODE			
FORMULATION STAND CODE: FORM			
LATEST INFORMATION LETTER TEST WAS RUN UNDER: INFOLETN			
GEAR VERSION: GEARVER			
PINION BATCH: PINBAT		RING BATCH: RINGBAT	

Last Reference Oil Calibrating Storage Box Information - Fill Out For Non-reference Oil Tests Only					
MOTORING STAND: MSTAND	STORAGE BOX # LRSBOXNM		TMC OIL CODE: LRIND	DATE COMPLETED: LRDTCOMP	
GEAR VERSION: LRGERVER	PINION BATCH: LRPINBAT		RING BATCH: LRRNGBAT		

RUST/CORROSION PASS/FAIL PARAMETERS			
	FINAL	AREA 4	Lowest o f 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

[A] AT THE PRESENT TIME THERE ARE NO TRANSFORMATIONS(I.E. MULTIPLY ORIGINAL RESULT * 1.0), NO CORRECTION FACTORS OR SEVERITY ADJUSTMENTS

L-33
FORM 2

RATING SUMMARY

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

RATER'S INITIALS (AFTER TEST) *RINIT1*

RUST/CORROSION

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]

[A] Rust Level (Enter 10, 9, 8, 5 or 0):

None	=	10		
Trace	=	9	=	not more than six spots of 1mm in diameter or less
Light	=	8	=	in excess of specifications for Trace rating and up to 1% of considered surface
Moderate	=	5	=	in excess of specification for Light rating and up to 5% of considered surface
Heavy	=	0	=	covering more than 5% of considered surface

[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

L-33
FORM 3

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	*MPTIMEST*	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	*SPTIMEST*	Finish	*SPTIMEFN*	
Oil Temperature, ˚F	Avg.	*SPOTEMPA*	Max.	*SPOTEMPX*	Min. *SPOTEMPI*

PERCENT DEVIATION						
CONTROLLED PARAMETER	MOTORING PHASE			STORAGE PHASE		
	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

L-33
FORM 4

PRE TEST RATING [A]

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

Match No.: MATCHNO **Date:** RATEDATE **Rated By:** RINIT2

Differential Case

Area 1. At Pinion Contact: RDCPINC1
RDCPINC2

Area 2. At Differential Gear Contact: RDCDFGC1
RDCDFGC2
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
RBDPNC2

Area 9. Differential Case Rollers: RBDFCR1
RBDFCR2

Area 10. Differential Case Cups: RBDFCC1
RBDFCC2

[A] AFTER ABRASIVE BLASTING

L-33
FORM 5

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		DWNOCR	
Test Hours	Date	Downtime	Reasons
DOWNR001	*DDATR001*	*DTIMR001*	*DREAR001*
		TOTLDOWN	Total Downtime

Other Comments		
Number of Comment Lines	*TOTCOM*	
OCOMR001		