

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

L331 VERSION 20050418 BETA

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 : 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 ASTM Test Method D 7038 and the appropriate amendments through the information letter system. The remarks included in this report describe the anomalies associated with this test.
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Submitted By:

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

**Test Method D 7038
L-33-1
Form 1 – Test Results**

Lab: LAB	Motoring Stand: MSTAND	Storage Box: SBOXNUM	Storage Box Run: SBOXRUN
Start Date: DTSTRT	EOT Date: DTCOMP	EOT Time: EOTIME	Test Length: TESTLEN
Oil Code: OILCODE			
TMC Oil Code: IND	Lab Oil Code: LABOCODE		Viscosity Grade: SAEVISC
Latest Information Letter Test Was Run Under: INFOLETN		Gear Version: GEARVER	
Pinion Batch: PINBAT		Ring Batch: RINGBAT	

Rater's Initials (After Test) : RINIT1			
Rust/Corrosion			
Location	RUST ^A	WEIGHTING FACTOR	WEIGHTED RUST
Differential Case:			
1. At Pinion Contact	RCDCPINC	* .087	RCPINWGT
2. Diff. Gear Contact	RCDCDFGC	* .193	RCGRCWGT
3. Diff. Gears (Side)	RCDCDFGS	* .094	RCGRSWGT
4. Axle Hsg. Cover	RCDCAXHC	* .169	RCAXHWGT
5. Drive Gear (Ring)	RCDCDGR	* .079	RCDGRWGT
6. Drive Pinion	RCDCDPIN	* .079	RCDPNWGT
Bearing:			
7. Drive Pinion Roller	RCBDPNR	* .051	RCBPRWGT
8. Drive Pinion Cups	RCBDPNC	* .083	RCBPCWGT
9. Diff. Case Roller	RCBDFCR	* .071	RCBCRWGT
10. Diff. Case Cups	RCBDFCC	* .094	RCBCCWGT
		Original Rust, Merit	RUST
		Correction Factor, Merit	RUSTCF
		Severity Adjustment, Merit	RUSTSA
		Final Rust, Merit	RUSTFNL
^A Rust Level (Enter 10, 9, 8, 5 or 0): None = 10 Trace = 9 = not more than six spots, each less than 1mm in diameter Light = 8 = seven(7) or more spots less than 1mm in diameter or, one(1) or more spots greater or equal to 1mm in diameter with a combined area of all the spots no greater than 1% of the total rated component surface. Moderate = 5 = in excess of above and up to 5% of considered surface Heavy = 0 = covering more than 5% of considered surface			

<p>Remarks: Note presence, location and amount of additional deposit-stain, sludge, etc.</p> <p>REMK1</p> <p>REMK2</p> <p>REMK3</p> <p>REMK4</p> <p>REMK5</p> <p>REMK6</p>

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Form 2

Last Reference Information & Operational Validity Summary

Lab: LAB	Motoring Stand : M STAND
Storage Box : SBOXNUM	Storage Box Run : SBOXRUN
Oil Code : OILCODE	

Last Reference Oil Calibrating Stand Information - Fill Out For Non-reference Oil Tests Only

Motoring Stand: LRMSTAND	Storage Box : LRSBOXNM	Storage Box Run: LRSBXRUN
Date Completed: LRDTCOMP	TMC Oil Code: LRIND	
Gear Version: LRGERVER	Pinion Batch: LRPINBAT	Ring Batch: LRRNGBAT

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
Oil Temperature °F	Start :	WUTEMPST	Finish: WUTEMPFN

Motoring Phase			
Time (h)	Start:	MPTIMEST	Finish: MPTIMEFN
Pinion Speed, r/min	Average: MPPSAVG	Maximum: MPPSMAX	Minimum: MPPSMIN
Oil Temperature, °F	Average: MPOTEMPA	Maximum: MPOTEMPX	Minimum: MPOTEMPI

Storage Phase			
Time (h)	Start :	SPTIMEST	Finish: SPTIMEFN
Oil Temperature, °F	Average: SPOTEMPA	Maximum: SPOTEMPX	Minimum: 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

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Form 3
Pre Test Rating ^A

Lab: LAB	Motoring Stand: M STAND
Storage Box : SBOXNUM	Storage Box Run: SBOXRUN
Oil Code: OILCODE	

Match No.: MATCHNO Date: DATEDATE Rated By: RINIT2

Differential Case

Area 1. At Pinion Contact: RDCPINC2
 RDCPINC1

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

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Form 4
Lost Time and Comments

Lab: LAB	Motoring Stand : M STAND
Storage Box: SBOXNUM	Storage Box Run: SBOXRUN
Oil Code: OILCODE	

Number of Downtime Occurrences			DWNOCR
Test Hours	Date	Downtime	Reasons
DOWNR001	DDATR001	DTIMR001	DREAR001
DOWNR002	DDATR002	DTIMR002	DREAR002
DOWNR003	DDATR003	DTIMR003	DREAR003
DOWNR004	DDATR004	DTIMR004	DREAR004
DOWNR005	DDATR005	DTIMR005	DREAR005
DOWNR006	DDATR006	DTIMR006	DREAR006
DOWNR007	DDATR007	DTIMR007	DREAR007
DOWNR008	DDATR008	DTIMR008	DREAR008
DOWNR009	DDATR009	DTIMR009	DREAR009
DOWNR010	DDATR010	DTIMR010	DREAR010
DOWNR011	DDATR011	DTIMR011	DREAR011
DOWNR012	DDATR012	DTIMR012	DREAR012
DOWNR013	DDATR013	DTIMR013	DREAR013
DOWNR014	DDATR014	DTIMR014	DREAR014
DOWNR015	DDATR015	DTIMR015	DREAR015
TOTLDOWN			Total Downtime (hours)

Other Comments	
Number of Comment Lines	TOTCOM
OCOMR001	
OCOMR002	
OCOMR003	
OCOMR004	
OCOMR005	
OCOMR006	
OCOMR007	
OCOMR008	
OCOMR009	
OCOMR010	
OCOMR011	
OCOMR012	
OCOMR013	
OCOMR014	
OCOMR015	

**Test Method D 7038
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Form 4A
Lost Time and Comments**

Lab: LAB	Motoring Stand : M STAND
Storage Box: SBOXNUM	Storage Box Run: SBOXRUN
Oil Code: OILCODE	

Number of Downtime Occurrences			DWNOCR
Test Hours	Date	Downtime	Reasons
DOWNR016	DDATR016	DTIMR016	DREAR016
DOWNR017	DDATR017	DTIMR017	DREAR017
DOWNR018	DDATR018	DTIMR018	DREAR018
DOWNR019	DDATR019	DTIMR019	DREAR019
DOWNR020	DDATR020	DTIMR020	DREAR020
DOWNR021	DDATR021	DTIMR021	DREAR021
DOWNR022	DDATR022	DTIMR022	DREAR022
DOWNR023	DDATR023	DTIMR023	DREAR023
DOWNR024	DDATR024	DTIMR024	DREAR024
DOWNR025	DDATR025	DTIMR025	DREAR025
DOWNR026	DDATR026	DTIMR026	DREAR026
DOWNR027	DDATR027	DTIMR027	DREAR027
DOWNR028	DDATR028	DTIMR028	DREAR028
DOWNR029	DDATR029	DTIMR029	DREAR029
DOWNR030	DDATR030	DTIMR030	DREAR030
TOTLDOWN			Total Downtime (hours)

Other Comments	
Number of Comment Lines	TOTCOM
OCOMR016	
OCOMR017	
OCOMR018	
OCOMR019	
OCOMR020	
OCOMR021	
OCOMR022	
OCOMR023	
OCOMR024	
OCOMR025	
OCOMR026	
OCOMR027	
OCOMR028	
OCOMR029	
OCOMR030	

**Test Method D 7038
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Form 4B
Lost Time and Comments**

Lab: LAB	Motoring Stand : M STAND
Storage Box: SBOXNUM	Storage Box Run: SBOXRUN
Oil Code: OILCODE	

Number of Downtime Occurrences			DWNOCR
Test Hours	Date	Downtime	Reasons
DOWNR031	DDATR031	DTIMR031	DREAR031
DOWNR032	DDATR032	DTIMR032	DREAR032
DOWNR033	DDATR033	DTIMR033	DREAR033
DOWNR034	DDATR034	DTIMR034	DREAR034
DOWNR035	DDATR035	DTIMR035	DREAR035
DOWNR036	DDATR036	DTIMR036	DREAR036
DOWNR037	DDATR037	DTIMR037	DREAR037
DOWNR038	DDATR038	DTIMR038	DREAR038
DOWNR039	DDATR039	DTIMR039	DREAR039
DOWNR040	DDATR040	DTIMR040	DREAR040
DOWNR041	DDATR041	DTIMR041	DREAR041
DOWNR042	DDATR042	DTIMR042	DREAR042
DOWNR043	DDATR043	DTIMR043	DREAR043
DOWNR044	DDATR044	DTIMR044	DREAR044
DOWNR045	DDATR045	DTIMR045	DREAR045
TOTLDOWN			Total Downtime (hours)

Other Comments	
Number of Comment Lines	TOTCOM
OCOMR031	
OCOMR032	
OCOMR033	
OCOMR034	
OCOMR035	
OCOMR036	
OCOMR037	
OCOMR038	
OCOMR039	
OCOMR040	
OCOMR041	
OCOMR042	
OCOMR043	
OCOMR044	
OCOMR045	