

**Report Forms
L-42**

Version: L42 VERSION 20030110 BETA
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			
Test Stand:	STAND	Stand Run Number:	STRUN
Date Completed:	DTCOMP	EOT Time:	EOTTIME
Oil Code:	OILCODE		
Formulation/Stand Code:	FORM		
Alternate Codes:	ALTCODE1	ALTCODE2	ALTCODE3
Test Version ^A:	TVERSION		

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.

^A Standard or Canadian

Submitted By:

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

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Form 1
Test Result Summary

Lab: LAB	Stand No.: STAND
Oil Code: OILCODE	Stand Run No.: STRUN

TYPE									
Test Date Started	Test Date Completed	End Of Test Time	Total Test Minutes	Laboratory Oil Code	Coast Side % Scoring			Coast Side Torque (lbf-ft)	
					EOT Pinion	EOT Ring	Sequence 2 Ring	Sequence 2	Sequence 4
DTSTRT	DTCOMP	EOTTIME	TESTLEN	LABOCODE	ECSPFNL	ECSRFNL	SCSRFNL	SEQ2CTA	SEQ4CTA
Latest Information Letter Run Against									
INFOLETN									

Stand Reference Oil Test History In Chronological Order													
	Test Date Started	Test Date Completed	End Of Test Time	Total Test Minutes	Stand Run No.	CMIR No.	TMC Oil No.	Laboratory Oil Code	Coast Side % Scoring			Coast Side Torque (lbf-ft)	
									EOT Pinion	EOT Ring	Seq 2 Ring	Sequence 2	Sequence 4
Discrimination^A	DTSTRTD	DTCOMP	EOTTIME	TESTLEN	STRUN1	CMIRD	INDD	LABOCODD	ECSPFNL	ECSRFNL	SCSRFNL	SEQ2CTAD	SEQ4CTAD
Calibration Sequence Passing Tests Only^B	STRTR001	COMPR001	EOTTR001	TOTHR001	FDRR001	CMIRR001	TMCNR001	LBOCR001	ECSPR001	ECSRR001	SCSRR001	SEQ2R001	SEQ4R001
	STRTR002	COMPR002	EOTTR002	TOTHR002	FDRR002	CMIRR002	TMCNR002	LBOCR002	ECSPR002	ECSRR002	SCSRR002	SEQ2R002	SEQ4R002
	STRTR003	COMPR003	EOTTR003	TOTHR003	FDRR003	CMIRR003	TMCNR003	LBOCR003	ECSPR003	ECSRR003	SCSRR003	SEQ2R003	SEQ4R003
Average For Passing Reference Oil Tests													
									ECSPA	ECRA	ECRAVG	SEQ2AVG	SEQ4AVG

^A Only for non-reference tests.
^B For non-reference and discrimination tests only.

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Form 2
Operational Summary**

Lab: LAB	Stand No.: STAND
Oil Code: OILCODE	Stand Run No.: STRUN

Stand Set-up				
Break-in Procedure Designation	BRKINDES			
	Sequence 2	Unit of Measure	Sequence 4	Unit of Measure
Acceleration Rate	ACRT2	ACRT2M	ACRT4	ACRT4M
Deceleration Rate	DCRT2	DCRT2M	DCRT4	DCRT4M

Gear Loading Data					
		Sequence 2		Sequence 4	
		Torques lbf-ft	Cycle Time Second	Torques lbf-ft	Cycle Time Second
Drive Side	Maximum	SEQ2DTX	SEQ2DCX	SEQ4DTX	SEQ4DCX
	Minimum	SEQ2DTI	SEQ2DCI	SEQ4DTI	SEQ4DCI
	Average	SEQ2DTA	SEQ2DCA	SEQ4DTA	SEQ4DCA
Coast Side	Maximum	SEQ2CTX	SEQ2CCX	SEQ4CTX	SEQ4CCX
	Minimum	SEQ2CTI	SEQ2CCI	SEQ4CTI	SEQ4CCI
	Average	SEQ2CTA	SEQ2CCA	SEQ4CTA	SEQ4CCA

Lubricant Temperature Data				
Phase	Specification	Average	Minimum	Maximum
Sequence 1 (After reaching 225 °F)	225 ± 5 °F	LATSEQ1	LMTSEQ1	LXTSEQ1
Phase	Specification	Start Value		Maximum
Sequence 2	200 ± 5 °F	LSTSEQ2		LXTSEQ2
Sequence 4	< 280 °F	LSTSEQ4		LXTSEQ4

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Form 3
Measurement Summary**

Lab: LAB	Stand No.: STAND
Oil Code: OILCODE	Stand Run No.: STRUN

Axle Codes			
Assembly Date	Match No.	Pinion Batch	Ring Batch
DTASSEM	MATCHNO	PINBAT	RINGBAT

Contact Pattern Measurements			
		Drive Side	Coast -Side
Length Rating	As Received	DSCPLRAR	CSCPLRAR
	As Tested	DSCPLRAT	CSCPLRAT
Flank Rating	As Received	DSCPFRAR	CSCPFRAR
	As Tested	DSCPFRAT	CSCPFRAT
Contact Pattern Rater Initials		CPRATER	

Test Axle Build Data								
Backlash (in.)	Specification	Average	Position Measurements				Minimum	Maximum
			1	2	3	4		
Initial	.004 -.009 in.	TABKLINA	BKLSINI1	BKLSINI2	BKLSINI3	BKLSINI4	TABKLINI	TABKLINX
Final		TABKLFNA	BKLSFNL1	BKLSFNL2	BKLSFNL3	BKLSFNL4	TABKLFNI	TABKLFNX
Increase		TABKLICA	Break			Turn		
Initial Pinion Torque (lbf -in)			TAIPNTBK			TAIPNTTN		

Inspection	Ring% Scoring		Pinion % Scoring	
	Drive Side	Coast Side	Drive Side	Coast Side
Break-In	BKINDSR	BKINCSR		
1st Noise Check	NSCK1DSR	NSCK1CSR		
2nd Noise Check	NSCK2DSR	NSCK2CSR		
Sequence 3	SQ3DSR	SCSR		
EOT	EOTDSR	ECSR	EOTDSP	ECSP
EOT Rating Date			EOT Rater Initials	
RATEDATE			RINIT	

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Form 4
Downtime and Comments

Lab: LAB	Stand No.: STAND
Oil Code: OILCODE	Stand Run No.: STRUN

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

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Form 4A**

Downtime and Comments

Lab: LAB	Stand No.: STAND
Oil Code: OILCODE	Stand Run No.: STRUN

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

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Form 4B**

Downtime and Comments

Lab: LAB	Stand No.: STAND
Oil Code: OILCODE	Stand Run No.: STRUN

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