A3. Report Forms
Test Method D 5579
(High Temperature Cyclic Durability Test)

Version HTCT VERSION 20240513 Beta

Conducted For:

TSTSPON1

TSTSPON2

LABVALID	**V = Valid**
	I = Invalid
	N = Results Cannot be Interpreted. (Refer to Comment Section)

Test Number			
Stand: STAND		**Stand Run:** STRUN	
EOT Date: DTCOMP		**EOT Time:** EOTTIME	
Oil Code: CMIR 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 Test Method D 5579 and the appropriate amendments through the information letter system. The remarks included in the report describe the anomalies associated with this test.**

[A] **CMIR or Non-Reference Oil Code**

Submitted By:

SUBLAB
Testing Laboratory

SUBSIGIM
Signature

SUBNAME
Typed Name

SUBTITLE
Title

SUBSECT
Section

Fig A3.1 Test Report Cover

Test Method D 5579
(High Temperature Cyclic Durability Test)
Form 1
Test Result

TYPE					
Lab	**Stand**	**Test Hardware Configuration**	**Date Completed**	**Total Test Hours**	**Stand Run No.**
LAB	STAND	TESTHARD	DTCOMP	TESTLEN	STRUN
Oil Code: CMIR OILCODE					
No. of Cycles to Unsynchronized Shifts: EOTCYCU					
Laboratory Oil Code: LABOCODE					
Reason for Test Termination: EOTRSN		**1 = Client request** **2 = Unsynchronized shifts (gear clashing)** **3 = Unable to maintain test conditions or other (see comments section)**			
Test stand and laboratory in accordance with information letters through: INFOLETN					
Formulation / Stand Code: FORM					

Stand Operationally Valid Reference Oil Test History In Chronological Order

Reference Oil Performance	Test Hardware Configuration	Test Date Completed	Total Test Hours	Stand Run No.	CMIR No.	TMC Oil No.	No. of Cycles to Unsynchronized Shifts	Laboratory Oil Code
Low	TESTHL	DTCOMPL	TESTLENL	STRUNL	CMIRL	INDL	EOTCYCUL	LABOCODL
High	TESTR001	COMPR001	TOTHR001	STDRR001	CMIRR001	TMCNR001	CYCHR001	LBOCR001
High	TESTR002	COMPR002	TOTHR002	STDRR002	CMIRR002	TMCNR002	CYCHR002	LBOCR002
High	TESTR003	COMPR003	TOTHR003	STDRR003	CMIRR003	TMCNR003	CYCHR003	LBOCR003
High	TESTR004	COMPR004	TOTHR004	STDRR004	CMIRR004	TMCNR004	CYCHR004	LBOCR004
High	TESTR005	COMPR005	TOTHR005	STDRR005	CMIRR005	TMCNR005	CYCHR005	LBOCR005
	Average Cycles For High Reference Oil Tests						CYCHAVG	

Fig A3.2 Test Result Summary

Test Method D 5579
(High Temperature Cyclic Durability Test)
Form 2
Test Conditions and Measurement Summary

Lab : LAB	**Stand:** STAND
Oil Code: CMIR OILCODE	**Stand Run:** STRUN

Test Conditions			
Test Length, hours	TESTLEN	**Warm-up Time, minutes**	WUPTIME
Parameter	**Minimum**	**Maximum**	**Average**
Tailshaft Speed, r/min	ITAILRPM	XTAILRPM	ATAILRPM
Oil Sump Temp., °F	ISUMPTMP	XSUMPTMP	ASUMPTMP
Shift Air Pressure, psi	ISHAIRPR	XSHAIRPR	ASHAIRPR

Pre-Test Measurements						
Countershaft Number	**1A**	**2A**	**3A**	**Spec.**		
Final Pre-Load, in.	FNLOAD1A	FNLOAD2A	FNLOAD3A	**0.0020 – 0.0060**	**Break**	**Turn**
Torque, lbf-in. (low range)					TORQBRK	TORQTRN

Test Results		
Range Fork No. RFORKNO		
	Left	**Right**
Pre-Test Pad Hardness, R_c	PADHARDL	PADHARDR
Pre-Test Pad Measurement Thickness, in.	PADMPREL	PADMPRER
Post-Test Pad Measurement Thickness, in.	PADMPOSL	PADMPOSR
Total Wear, in.	WEARTOTL	WEARTOTR
Average Wear, in.	WEARAVG	

	Rear Friction Disc Thickness, in.			
Disc	**1**	**2**	**3**	**4**
Pre-Test	ETHICKR1	ETHICKR2	ETHICKR3	ETHICKR4
Post-Test	OTHICKR1	OTHICKR2	OTHICKR3	OTHICKR4
Wear	WEARR1	WEARR2	WEARR3	WEARR4

	Front Friction Disc Thickness, in.			
Disc	**5**	**6**	**7**	**8**
Pre-Test	ETHICKF5	ETHICKF6	ETHICKF7	ETHICKF8
Post-Test	OTHICKF5	OTHICKF6	OTHICKF7	OTHICKF8
Wear	WEARF5	WEARF6	WEARF7	WEARF8

Fig. A3.3 Test Conditions and Measurement Summary

Test Method D 5579
(High Temperature Cyclic Durability Test)
Downtime and Comments
Form 3

Lab: LAB	**Stand:** STAND
Oil Code: CMIR OILCODE	**Stand Run:** STRUN

Test Lost Time:

Record: The time shutdown, time off test conditions, early inspections/termination with reasons and minimum oil temperature in degrees Fahrenheit.

Number of Downtime Occurrences		DWNOCR	
Test Hours	**Date**	**Downtime**	**Reasons**
DOWNF	DDATR001	DTIMR001	DREAR001
DOWNF	DDATR002	DTIMR002	DREAR002
DOWNF	DDATR003	DTIMR003	DREAR003
DOWNF	DDATR004	DTIMR004	DREAR004
DOWNF	DDATR005	DTIMR005	DREAR005
DOWNF	DDATR006	DTIMR006	DREAR006
DOWNF	DDATR007	DTIMR007	DREAR007
DOWNF	DDATR008	DTIMR008	DREAR008
DOWNF	DDATR009	DTIMR009	DREAR009
DOWNF	DDATR010	DTIMR010	DREAR010
DOWNF	DDATR011	DTIMR011	DREAR011
DOWNF	DDATR012	DTIMR012	DREAR012
DOWNF	DDATR013	DTIMR013	DREAR013
DOWNF	DDATR014	DTIMR014	DREAR014
DOWNF	DDATR015	DTIMR015	DREAR015
		TOTLDOWI	**Total Downtime**

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

Fig. A3.4 Downtime Comments and Summary

Test Method D 5579
(High Temperature Cyclic Durability Test)
Downtime and Comments
Form 3A

Lab: LAB	**Stand:** STAND
Oil Code: CMIR OILCODE	**Stand Run:** STRUN

Test Lost Time:

Record: The time shutdown, time off test conditions, early inspections/termination with reasons and minimum oil temperature in degrees Fahrenheit.

Number of Downtime Occurrences	DWNOCR	

Test Hours	**Date**	**Downtime**	**Reasons**
DOWNI	DDATR016	DTIMR016	DREAR016
DOWNI	DDATR017	DTIMR017	DREAR017
DOWNI	DDATR018	DTIMR018	DREAR018
DOWNI	DDATR019	DTIMR019	DREAR019
DOWNI	DDATR020	DTIMR020	DREAR020
DOWNI	DDATR021	DTIMR021	DREAR021
DOWNI	DDATR022	DTIMR022	DREAR022
DOWNI	DDATR023	DTIMR023	DREAR023
DOWNI	DDATR024	DTIMR024	DREAR024
DOWNI	DDATR025	DTIMR025	DREAR025
DOWNI	DDATR026	DTIMR026	DREAR026
DOWNI	DDATR027	DTIMR027	DREAR027
DOWNI	DDATR028	DTIMR028	DREAR028
DOWNI	DDATR029	DTIMR029	DREAR029
DOWNI	DDATR030	DTIMR030	DREAR030
		TOTLDOWI	**Total Downtime**

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

Fig. A3.4 Downtime Comments and Summary

Test Method D 5579
(High Temperature Cyclic Durability Test)
Downtime and Comments
Form 3B

Lab: LAB	**Stand:** STAND
Oil Code: CMIR OILCODE	**Stand Run:** STRUN

Test Lost Time:

Record: The time shutdown, time off test conditions, early inspections/termination with reasons and minimum oil temperature in degrees Fahrenheit.

Number of Downtime Occurrences	DWNOCR	

Test Hours	**Date**	**Downtime**	**Reasons**
DOWNI	DDATR031	DTIMR031	DREAR031
DOWNI	DDATR032	DTIMR032	DREAR032
DOWNI	DDATR033	DTIMR033	DREAR033
DOWNI	DDATR034	DTIMR034	DREAR034
DOWNI	DDATR035	DTIMR035	DREAR035
DOWNI	DDATR036	DTIMR036	DREAR036
DOWNI	DDATR037	DTIMR037	DREAR037
DOWNI	DDATR038	DTIMR038	DREAR038
DOWNI	DDATR039	DTIMR039	DREAR039
DOWNI	DDATR040	DTIMR040	DREAR040
DOWNI	DDATR041	DTIMR041	DREAR041
DOWNI	DDATR042	DTIMR042	DREAR042
DOWNI	DDATR043	DTIMR043	DREAR043
DOWNI	DDATR044	DTIMR044	DREAR044
DOWNI	DDATR045	DTIMR045	DREAR045
		TOTLDOWI	**Total Downtime**

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

Fig. A3.4 Downtime Comments and Summary

Test Method D 5579
(High Temperature Cyclic Durability Test)
Form 4
Shift Graphs

Lab: LAB	**Stand:** STAND
Oil Code: CMIR OILCODE	**Stand Run:** STRUN

CYIM1

Fig A3.5 Shift Graphs

Test Method D 5579
(High Temperature Cyclic Durability Test)
Form 5
Shift Time Graphs

Lab: LAB	**Stand:** STAND
Oil Code: CMIR OILCODE	**Stand Run:** STRUN

CYIM2

Fig A3.6 Shift Time Graphs