

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

**Version  
Conducted For:**

	<b>V = Valid</b>
	<b>I = Invalid</b>
	<b>N = Results Cannot be Interpreted. (Refer to Comment Section)</b>

<b>Test Number</b>			
<b>Stand:</b>	<b>Stand Run:</b>		
<b>EOT Date:</b>	<b>EOT Time:</b>		
<b>Oil Code:</b>			
<b>Formulation/Stand Code:</b>			
<b>Alternate Codes:</b>			

<p><b>In my opinion this test</b> _____ <b>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.</b></p>
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<sup>A</sup> CMIR or Non-Reference Oil Code

**Submitted By:** \_\_\_\_\_ **Testing Laboratory**

\_\_\_\_\_ **Signature**

\_\_\_\_\_ **Typed Name**

\_\_\_\_\_ **Title**

\_\_\_\_\_ **Section**

**Fig A3.1 Test Report Cover**

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

<b>Lab</b>	<b>Stand</b>	<b>Test Hardware Configuration</b>	<b>Date Completed</b>	<b>Total Test Hours</b>	<b>Stand Run No.</b>
<b>Oil Code:</b>					
<b>No. of Cycles to Unsynchronized Shifts:</b>					
<b>Laboratory Oil Code:</b>					
<b>Reason for Test Termination:</b>			<b>1 = Client request</b> <b>2 = Unsynchronized shifts (gear clashing)</b> <b>3 = Unable to maintain test conditions or other (see comments section)</b>		
<b>Test stand and laboratory in accordance with information letters through:</b>					
<b>Formulation / Stand Code:</b>					

**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
<b>Low</b>								
<b>High</b>								
<b>High</b>								
<b>High</b>								
<b>High</b>								
<b>High</b>								
<b>Average Cycles For High Reference Oil Tests</b>								

**Fig A3.2 Test Result Summary**

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

<b>Lab :</b>	<b>Stand:</b>
<b>Oil Code:</b>	<b>Stand Run:</b>

<b>Test Conditions</b>			
Test Length, hours			Warm-up Time, minutes
Parameter	Minimum	Maximum	Average
Tailshaft Speed, r/min			
Oil Sump Temp., °F			
Shift Air Pressure, psi			

<b>Pre-Test Measurements</b>						
Countershaft Number	1A	2A	3A	Spec.	Break	Turn
Final Pre-Load, in.				0.0020 – 0.0060		
Torque, lbf-in. (low range)						

<b>Test Results</b>			
Range Fork No.			
	Left		Right
Pre-Test Pad Hardness, R <sub>c</sub>			
Pre-Test Pad Measurement Thickness, in.			
Post-Test Pad Measurement Thickness, in.			
Total Wear, in.			
Average Wear, in.			

	<b>Rear Friction Disc Thickness, in.</b>			
Disc	1	2	3	4
Pre-Test				
Post-Test				
Wear				

	<b>Front Friction Disc Thickness, in.</b>			
Disc	5	6	7	8
Pre-Test				
Post-Test				
Wear				

Fig. A3.3 Test Conditions and Measurement Summary







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

<b>Lab:</b>	<b>Stand:</b>
<b>Oil Code:</b>	<b>Stand Run:</b>

**Fig A3.5 Shift Graphs**

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

<b>Lab:</b>	<b>Stand:</b>
<b>Oil Code:</b>	<b>Stand Run:</b>

**Fig A3.6 Shift Time Graphs**