

**Test Method D5704  
(L-60-1)**

**Version  
Conducted For**

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

<b>Test Number</b>			
Test Stand:	Stand Run Number:		
Date Completed:	End Of Test Time:		
Oil Code <sup>A</sup> :			
Formulation/Stand Code:			
Alternate Codes:			

In my opinion this test \_\_\_\_\_ been conducted in a valid manner in accordance with Test Method D5704 and the appropriate amendments through the Information Letter System. The remarks included in this report describe anomalies associated with this test.

<sup>A</sup> CMIR or Non-Reference Oil Code

Submitted By:

_____
Testing Laboratory
_____
Signature
_____
Typed Name
_____
Title
_____
Section

**Test Method D5704  
(L-60-1)  
Form 1**

**Reference Test Result Summary Sheet**

Lab	Stand		Stand Run
Start Date	Date Completed	End Of Test Time	Test Length
CMIR	TMC Oil Code	Viscosity Grade	Gear Batch
Laboratory Oil Code			
Latest Information Letter Test Was Run Under			

**Reference Oil Test**

	<b>Viscosity Increase (%)</b>	<b>Pentane Insolubles (% wt.)</b>	<b>Toluene Insolubles (% wt.)</b>	<b>Average Carbon/Varnish (merits)</b>	<b>Average Sludge (merits)</b>
Original Results					
Correction Factor					
Final Result					

**Test Method D5704  
(L-60-1)  
Form 2**

**Non-Reference Test Result Summary Sheet**

Lab	Stand		Stand Run #
Start Date	Date Completed	End of Test Time	Test Length
Oil Code			
Viscosity Grade	Gear Batch	Laboratory Oil Code	
Formulation Stand Code			
Latest Information Letter Test Was Run Under			

	Viscosity Increase (%)	Pentane Insolubles (% wt.)	Toluene Insolubles (% wt.)	Average Carbon/Varnish (merits)	Average Sludge (merits)
Original Results					
Transformed Results					
Correction Factor					
Corrected Transformed Result					
Corrected Original Unit Result					
Severity Adjustment					
Final Original Unit Result					

Non-Reference Oil Test

**Test Method D5704  
(L-60-1)  
Form 3**

Operational Summary

Lab:	Stand:	Stand Run:
Oil Code:		

OPERATIONS	TOTAL	AVERAGE	MINIMUM	MAXIMUM
Test Length, h				
Warm-up Time, min				
Air Box Temperature, °F				
Average Air Flow, mg/min				
Oil Temperature, °F				
Large Gear Speed, r/min				
Alternator Load, W				
<b>MEASUREMENTS</b>				
Catalyst Weight Loss, g				
Catalyst Weight Loss, %				
Initial Oil Charge Weight, g				
Final Drain Weight, g				
Oil Weight Loss, g				
Oil Weight Loss, %				
Acid Number (Test Method D 664)				

TEST TIME, h	VISCOSITY, cSt @ 100°C (D 445)
0	
50	







**Test Method D5704  
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Form 5**

**Gear Rating**

Lab:	Stand:	Stand Run:
Oil Code:	Rated By:	Rater Calexp Date:

**Carbon/Varnish:**

Large Gear						Small Gear					
Front			Rear			Front			Rear		
%	Rate	Merit	%	Rate	Merit	%	Rate	Merit	%	Rate	Merit
<b>Total</b>			<b>Total</b>			<b>Total</b>			<b>Total</b>		

**Large Gear Average of Carbon/Varnish Only** \_\_\_\_\_

**Sludge:** \_\_\_\_\_ Small Gear Rating for Information Only

Large Gear						Small Gear					
Front			Rear			Front			Rear		
Depth	% Cover	Volume Factor	Depth	% Cover	Volume Factor	Depth	% Cover	Volume Factor	Depth	% Cover	Volume Factor
CL			CL			CL			CL		
1/4A			1/4A			1/4A			1/4A		
1/2A			1/2A			1/2A			1/2A		
3/4A			3/4A			3/4A			3/4A		
A			A			A			A		
AB			AB			AB			AB		
B			B			B			B		
BC			BC			BC			BC		
C			C			C			C		
D			D			D			D		
<b>Total</b>			<b>Total</b>			<b>Total</b>			<b>Total</b>		
<b>Merit Rating</b>			<b>Merit Rating</b>			<b>Merit Rating</b>			<b>Merit Rating</b>		

**Four Side Average of Sludge** \_\_\_\_\_

Large Gear Front – Stamped GA50  
Rear – No Markings

Small Gear Front – Stamped GA34  
Rear – No Markings

Sludge:  
Rate total flat area excluding gear teeth, washer/nut area and 3/4" wide strip area using CRC Manual 20

Varnish/Carbon:  
CRC Method – 3/4 in. Wide strip across gear excluding gear teeth and washer/nut area.  
CRC Rust/Varnish color intensity factors 10.0 to 1.0  
Carbon Rating: merit rating  
Trace Carbon: 0.85  
Light Carbon: 0.75  
Medium Carbon: 0.50  
Heavy Carbon: 0.0



**Test Method D5704  
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Form 6**

**Operational Validity Summary**

Lab:	Stand:	Stand Run:
Oil Code:		

Controlled Parameter	Warm-Up			Actual Test		
	Allowable % Out	This Test % Out	Actual Time Out min:s	Allowable % Out	This Test % Out	Actual Time Out min:s
Oil Temperature				5		
Air Flow	10			5		
Alternator Load	10			5		
Large Gear Speed	5			2		