

**Test Method D5967**

**Mack T-8**

**Version**

T8 VERSION 20040727 BETA

**Method:**

METHOD

**Conducted For**

TSTSPON1

TSTSPON2

<b>T-8A:</b> LABVT8A	<b>V = Valid</b>	<b>The Reference Oil/Non-Reference Oil was evaluated in accordance with the test procedure.</b>
<b>T-8:</b> LABVALT8	<b>I = Invalid</b>	<b>The Reference Oil/Non-Reference was not evaluated in accordance with the test procedure</b>
<b>T-8E:</b> LABVT8E	<b>N = Not Interpretable</b>	<b>The Non-Reference Oil results cannot be interpreted and shall not be used in determining an average test result using multiple test criteria.</b>

<b>Stand:</b> STAND	<b>Stand Run No.:</b> RSTRUN STRUN	<b>Engine No.:</b> ENGINE	<b>Engine Hours:</b> RENHOENHOU
<b>End Of Test Date:</b> RDTCOMP	DTCOMP	<b>End Of Test Time:</b> REOTIME	EOTIME
<b>Oil Code/CMIR:</b> <sup>A</sup> CMIR	OILCODE		
<b>T-8 Formulation/Stand Code:</b>	FORMT8		
<b>T-8E Formulation/Stand Code:</b>	FORMT8E		
<b>Alternate Codes:</b>	ALTCODE1	ALTCODE2	ALTCODE3

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

**Submitted By:**

SUBLAB

**Testing Laboratory**

SUBSIGIM

**Signature**

SUBNAME

**Typed Name**

SUBTITLE

**Title**

**Test Method D5967 – Mack T-8  
Form 1  
Test Result Summary**

T-8 Formulation/Stand Code: FORMT8		Test Length: <sup>A</sup> TESTLEN	
T-8E Formulation/Stand Code: FORMT8E		Non-Reference Oil Test	
Reference Oil Test			
Oil Code:			
TMC Oil No.	Test Lab	Test Stand No.	Test Stand Run No.
IND	LAB	STAND	RSTRUN
Rebuild Block Hours	Engine Block Serial No.	Engine Block	Engine Block Hours
RENHOUR	ENGINE	ENGINE	ENHOURS
Date Test Started:	Date Test Completed:	Date Test Started:	Date Test Completed:
RDTSTRT	RDTCOMP	DTSTRT	DTCOMP
Laboratory Oil Code:	Laboratory Oil Code:	Laboratory Oil Code:	Laboratory Oil Code:
RLABCODE	RLABCODE	LABOCODE	LABOCODE
SAE Viscosity:	SAE Viscosity:	SAE Viscosity:	SAE Viscosity:
RSAEVISC	RSAEVISC	SAEVISC	SAEVISC
<b>Viscosity Slope 100 - 150 h, cSt/h</b>	RVSLPFNL		VSLPFNL
<b>Viscosity Increase At 3.8% TGA, cSt</b>	RVISI38		VISI38
			VIS38_SA
			VIS38FNL
<b>Relative Viscosity At 4.8%, TGA (50% Loss)<sup>B</sup></b>	RRV48FNL		RV48
			RV48_SA
			RV48FNL
<b>Relative Viscosity At 4.8%, TGA (100% Loss)<sup>B</sup></b>	RRV2FNL		RV2
			RV2_SA
			RV2FNL
<b>TGA Soot % At 250 h</b>	RTGAAVG		TGAAVG
<b>TGA Soot % At 300 h</b>	RTGAH300		TGA_H300
<b>Average Oil Consumption At 250 h (g/kW-h)</b>	ROILCON		OILCON
<b>Oil Filter Delta At 250 h, kPa</b>	RXOILD		XOILD

<sup>A</sup> Test length is discussed in sections 1.2, 4.1 A8.3.1 and A9.3.1

<sup>B</sup> Relative viscosities are calculated using shear loss determined by D6278

**TEST METHOD D5967  
FORM 2  
OPERATIONAL SUMMARY <sup>A</sup>**

Laboratory LAB	Start Date RDTSTRT	DTSTRT
Test Number <sup>B</sup> TESTNUM		
Oil Code CMIR	OILCODE	
T-8 Formulation/Stand Code: FORMT8		
T-8E Formulation/Stand Code: FORMT8E		

TEST PARAMETER	SPECIFICATION	AVERAGE	STD. DEV.	MINIMUM	MAXIMUM
Engine Speed, r/min	1800 ± 5	ARPM	SRPM	IRPM	XRPM
Torque, N-m	1369 – 1398	ALOAD	SLOAD	ILOAD	XLOAD
Fuel Flow, kg/h	63.28 ± 0.63	AFFLO	SFFLO	IFFLO	XFFLO
Humidity, g/kg	Report	AHUMID		IHUMID	XHUMID
Blowby, L/min	Report	ABLOBY		IBLOBY	XBLOBY
TEMPERATURES	SPECIFICATION	AVERAGE	STD. DEV	MINIMUM	MAXIMUM
Coolant Out, °C	85 ± 3	ACOLOUT	SCOLOUT	ICOLOUT	XCOLOUT
Coolant In, °C	Report Only	ACOLIN	SCOLIN	ICOLIN	XCOLIN
Oil, °C	100 - 107	AOILTEM	SOILTEM	IOILTEM	XOILTEM
Fuel In, °C	40 ± 1	AFUELT	SFUELT	IFUELT	XFUELT
Intake Air, °C	25 ± 3	AINAIRT	SINAIRT	IINAIRT	XINAIRT
Intake Manifold, °C	43 ± 3	AINMANT	SINMANT	IINMANT	XINMANT
Pre- Turb. (F), °C	602 - 632	APTURFT	SPTURFT	IPTURFT	XPTURFT
Pre-Turbo (R), °C	602 - 632	APTURRT	SPTURRT	IPTURRT	XPTURRT
TailPipe, °C	455 - 474	ATAILPT	STAILPT	ITAILPT	XTAILPT
PRESSURES	SPECIFICATION	AVERAGE	STD.DEV	MINIMUM	MAXIMUM
Oil Gallery, kPa	372 -441	AOILPRS		IOILPRS	XOILPRS
Crankcase, kPa	0.50 ±0.25	ACCASEP	SCCASEP	ICCASEP	XCCASEP
Exhaust, kPa	3.1 ± 0.4	AEXHSTP	SEXHSTP	IEXHSTP	XEXHSTP
Oil Filter Delta, kPa	138 Max.				RXOIL/OILDP
Inlet Air Res., kPa	2.5 ± 0.25	AINAIRR	SINAIRR	IINAIRR	XINAIRR
Intake Manifold, kPa	186 - 199	AINMANP	SINMANP	IINMANP	XINMANP
Compressor Discharge, kPa	Report	ACOMDIS	SCOMDIS	ICOMDIS	XCOMDIS
Intercooler Delta, kPa	13.6 Maximum	AINCLDP	SINCLDP	IINCLDP	XINCLDP

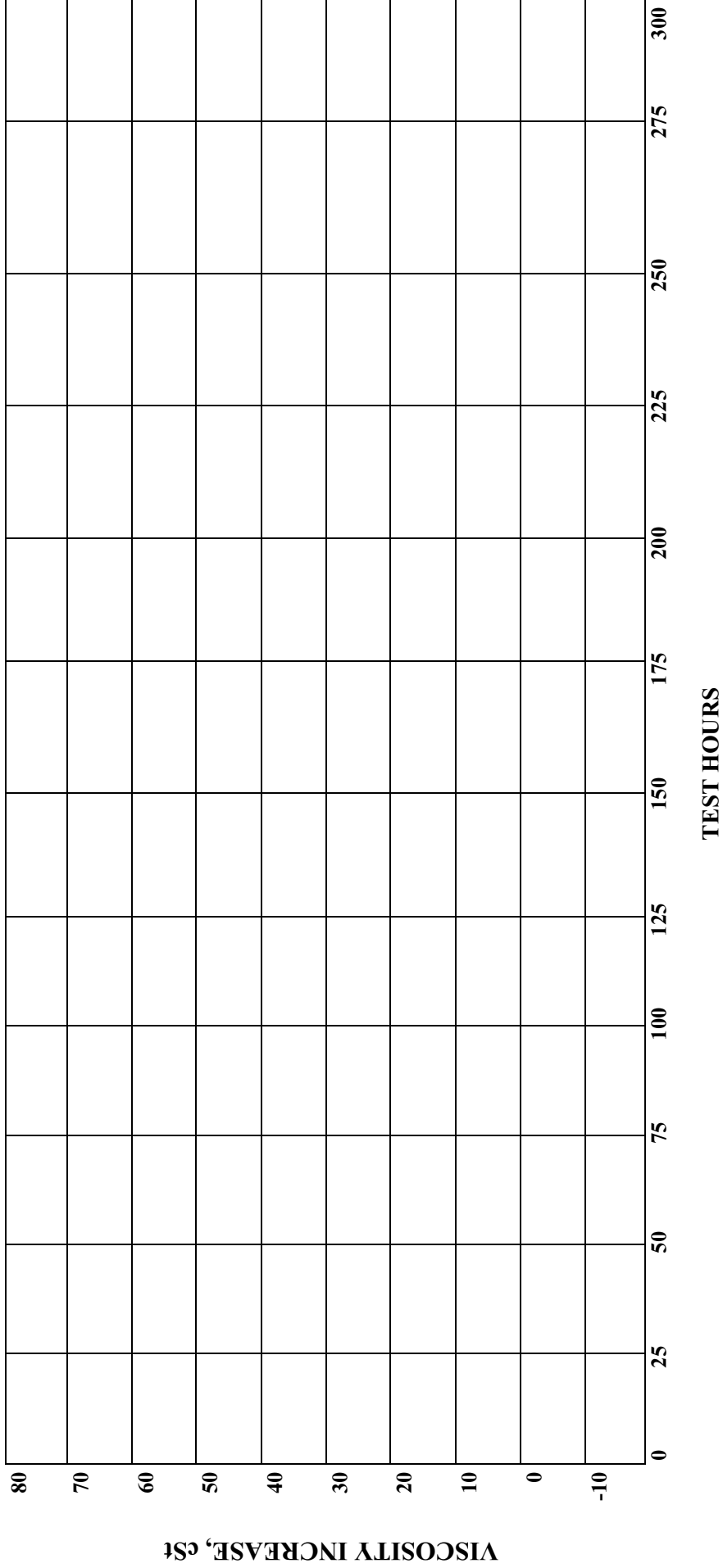
<sup>A</sup> ALL DATA VALUES SHOWN ARE BASED ON TEST LENGTH REPORTED ON FORM1

<sup>B</sup> TEST NUMBER IS: STAND – STAND RUN NO. – ENGINE SERIAL NO. – ENGINE HOURS

**TEST METHOD D5967  
FORM 3**

**VISCOSITY INCREASE VERSUS TIME**

Laboratory	LAB	Start Date	RDTSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM	Oil Code	CMIR	OILCODE
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code	FORMT8E			



**TEST METHOD D5967  
FORM 4  
OIL ANALYSIS SUMMARY**

Laboratory	LAB	Start Date	RDSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			

Hours	Soot TGA%		Viscosity (cSt)		Viscosity Increase From Minimum (cSt)	
TST_H000	RTGAH000	TGA_H000	RVISH000	VIS_H000		
TST_H025	RTGAH025	TGA_H025	RVISH025	VIS_H025	DVISH025	IVISH025
TST_H050	RTGAH050	TGA_H050	RVISH050	VIS_H050	DVISH050	IVISH050
TST_H075	RTGAH075	TGA_H075	RVISH075	VIS_H075	DVISH075	IVISH075
TST_H100	RTGAH100	TGA_H100	RVISH100	VIS_H100	DVISH100	IVISH100
TST_H125	RTGAH125	TGA_H125	RVISH125	VIS_H125	DVISH125	IVISH125
TST_H150	RTGAH150	TGA_H150	RVISH150	VIS_H150	DVISH150	IVISH150
TST_H175	RTGAH175	TGA_H175	RVISH175	VIS_H175	DVISH175	IVISH175
TST_H200	RTGAH200	TGA_H200	RVISH200	VIS_H200	DVISH200	IVISH200
TST_H225	RTGAH225	TGA_H225	RVISH225	VIS_H225	DVISH225	IVISH225
TST_H250	RTGAH250	TGA_H250	RVISH250	VIS_H250		
250 (2nd)	TGA2502		VIS2502			
250 (Average)	RTGAAVG	TGAAVG	RVISAVG	VISAVG	RVISI AVG	IVISI AVG
TST_H275	RTGAH275	TGA_H275	RVISH275	VIS_H275	DVISH275	IVISH275
TST_H300	RTGAH300	TGA_H300	RVISH300	VIS_H300	DVISH300	IVISH300

Viscosity Increase @ 3.8% TGA Soot Level	RVISI38	VISI38
D6278 Un sheared Viscosity (cSt), Vu	VISVU	
D6278 Sheared Viscosity (cSt), Vs	VISVS	
Relative Viscosity @, 4.8% TGA Soot Level (50% Loss) A	RRV48FNL	RV48
Relative Viscosity @, 4.8% TGA Soot Level (100% Loss) A	RRV2FNL	RV2

ELEMENT	Parts per million (ppm) at Test Hour			
	PPMTH000	PPMTH150	PPMTH250	PPMTH300
Fe	FE_H000	FE_H150	FE_H250	FE_H300
Pb	PB_H000	PB_H150	PB_H250	PB_H300
Cu	CU_H000	CU_H150	CU_H250	CU_H300
Cr	CR_H000	CR_H150	CR_H250	CR_H300
Al	AL_H000	AL_H150	AL_H250	AL_H300
Si	SI_H000	SI_H150	SI_H250	SI_H300
Na	NA_H000	NA_H150	NA_H250	NA_H300

Centrifugal Oil Filter mass: grams	Pre-Test	Post-Test	Mass Gain
	PREMASS	POSSMASS	MASSG

<sup>A</sup> Relative viscosities are calculated using shear loss determined by D5278.

**TEST METHOD D5967  
FORM 5  
TEST FUEL ANALYSIS (LAST BATCH)**

Laboratory	LAB	Start Date	RDTSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			
Supplier:	FUELSUP	Batch Identifiers:	FUELBTID	

Measurement	Specs.	Analysis		Test Method
		NEW	EDT	
Total Sulfur, % wt	0.03 - 0.05	FUELSNEW	FUELSEOT	D 2622
Gravity, °API	32-36	APIGRNEW	APIGREOT	D 287 or D 4052
<b>Hydrocarbon Composition</b>				
Aromatics % vol	28 - 35	FUELAROM		D 1319
Olefin	Report	FUELOLEF		D 1319
Saturates	Report	FUELSATU		D 1319
Cetane Index	Report	CETANEIN		D 4737
Cetane No.	42 - 48	CETANENO		D 613
Copper Strip Corrosion	3 max	FUELCU		D 130
Flash Point, °C	54 min	FLASHPT		D 93
Cloud Point °C	-12 max	FUELCLOU		D 2500
Pour Point °C	-18 max	FUELPOUR		D97
Carbon Residue on 10% Residium, %	0.35 max	FUELCRES		D 524 (10 % Bottoms)
Water & Sediment, % Vol	0.05 max	FUELH2O		D 2709
Ash, % wt	0.01 max	FUELASH		D482
Viscosity, cSt @ 40 °C	2.0 - 3.2	KINVIS		D445
<b>Distillation °C</b>				
IBP	177 - 199	FUELIBP		D 86
10%	210 - 232	FUEL10		D 86
50%	249 - 277	FUEL50		D 86
90%	299 - 327	FUEL90		D 86
EP	327 - 360	FUELEP		D 86

**TEST METHOD D5967  
FORM 6  
DOWN TIME AND COMMENTS**

Laboratory LAB	Start Date RDTSTRT	DTSTRT
Test Number <sup>B</sup> TESTNUM		
Oil Code CMIR	OILCODE	
T-8 Formulation/Stand Code: FORMT8		
T-8E Formulation/Stand Code: FORMT8E		

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
		TOTLDOW1	Total Downtime

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

**TEST METHOD D5967  
FORM 6A  
DOWN TIME AND COMMENTS**

Laboratory LAB	Start Date RDTSTRT	DTSTRT
Test Number <sup>B</sup> TESTNUM		
Oil Code CMIR	OILCODE	
T-8 Formulation/Stand Code:	FORMT8	
T-8E Formulation/Stand Code:	FORMT8E	

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
		TOTLDOWI	Total Downtime

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



**TEST METHOD D5967  
FORM 6B  
DOWN TIME AND COMMENTS**

Laboratory LAB	Start Date RDTSTRT	DTSTRT
Test Number <sup>B</sup> TESTNUM		
Oil Code CMIR	OILCODE	
T-8 Formulation/Stand Code:	FORMT8	
T-8E Formulation/Stand Code:	FORMT8E	

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
		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	

**TEST METHOD D5967  
FORM 7  
CHARACTERISTICS OF THE DATA ACQUISITION SYSTEM**

Laboratory LAB	Start Date RDTSTRT DTSTRT
Test Number <sup>B</sup> TESTNUM	
Oil Code CMIR	OILCODE
T-8 Formulation/Stand Code: FORMT8	
T-8E Formulation/Stand Code: FORMT8E	

PARAMETER (1)	SENSING DEVICE (2)	CALIBRATION FREQUENCY (3)	RECORD DEVICE (4)	OBSERVATION FREQUENCY (5)	RECORD FREQUENCY (6)	LOG FREQUENCY (7)	SYSTEM RESPONSE (8)
<b>Temperatures</b>							
OIL@ FILT.	OTEMSENS	OTEMCALF	OTEMRECI	OTEMOBSF	OTEMRECF	OTEMLOGF	OTEMSYSR
FUEL IN.	FTEMSSENS	FTEMCALF	FTEMRECI	FTEMOBSF	FTEMRECF	FTEMLOGF	FTEMSYSR
INTAKE AIR	AITSENS	AITCALF	AITRECD	AITOBSF	AITRECF	AITLOGF	AITSYSR
INTAKE MAN	IMANSENS	IMANCALF	IMANRECI	IMANOBSF	IMANRECF	IMANLOGF	IMANSYSR
PRE- TURB.	PTURSENS	PTURCALF	PTURRECI	PTUROBSF	PTURRECF	PTURLOGF	PTURSYSR
COOL. OUT	COTSENS	COTCALF	COTRECD	COTOBSF	COTRECF	COTLOGF	COTSYSR
<b>Other</b>							
FUEL FLOW	FFLOSENS	FFLOCALF	FFLORECI	FFLOBSF	FFLORECF	FFLOLOGF	FFLOSYSR
ENGINE RPM	RPMSENS	RPMCALF	RPMRECD	RPMOBSF	RPMRECF	RPMLOGF	RPMSYSR
LOAD	LOADSENS	LOADCALF	LOADRECI	LOADOBSF	LOADRECF	LOADLOGF	LOADSYSR
INLET RESTR	INRESENS	INRECALF	INRERECI	INREOBSF	INRERECF	INRELOGF	INRESYSR
EXH. PRESS.	EXPRSENS	EXPRCALF	EXPRRECI	EXPROBSF	EXPRECF	EXPRLOGF	EXPRSYSR
OIL GAL PRES	OILGSENS	OILGCALF	OILGRECI	OILGOBSF	OILGRECF	OILGLOGF	OILGSYSR

LEUEND:

- (1) OPERATING PARAMETER
- (2) THE TYPE OF DEVICE USED TO MEASURE TEMPERATURE, PRESSURE OR FLOW
- (3) FREQUENCY AT WHICH THE MEASUREMENT SYSTEM IS CALIBRATED
- (4) THE TYPE OF DEVICE WHERE DATA IS RECORDED  
 LG-HANDLOGSHEET  
 DL -AUTOMATIC DATA LOGGER  
 SC-STRIPCHARTRECORDER  
 C/M -COMPUTER, USING MANUAL DATA ENTRY  
 C/D -COMPUTER, USING DIRECT VO ENTRY
- (5) DATA ARE OBSERVED BUT ONLY IF RECORDED OFF SPEC.
- (6) DATA ARE RECORDED BUT ARE NOT RETAINED AT EOT
- (7) DATA ARE LOGGED AS PERMANENT RECORD, NOTE SPECIFY IF:  
 SS -SNAPSHOT TAKEN AT SPECIFIED FREQUENCY  
 AG/X AVERAGE OF X DATA POINTS AT SPECIFIED FREQUENCY
- (8) TIME FOR THE OUTPUT TO REACH 63.2% OF FINAL VALUE FOR STEP CHANGE AT INPUT

**TEST METHOD D5967  
FORM 8  
BUILD-UP AND HARDWARE INFORMATION**

Laboratory	LAB	Start Date	RDTSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			

**TIMING**

Lite/HPC Offset (deg)	OFFSET
Piston Travel to TDC (deg)	TRAVEL
Timing (deg)	TIMING

**PARTS**

Part	Part Number	Serial Number
Injection Pump	INJPMPPN	INJPMPSN
Turbo Charger	TRBCHGPN	
Cylinder Head (front)	CYLHFRPN	CYLHFRSN
Cylinder Head (rear)	CYLHRRPN	CYLHRRSN
Pistons	PISTONPN	
Injection Nozzles	INJNOZPN	

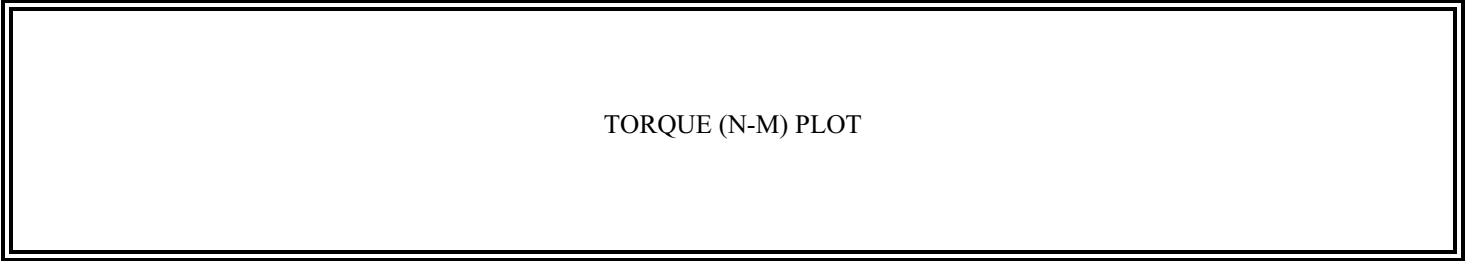
**TEST METHOD D5967  
FORM 9  
OPERATIONAL DATA**

Laboratory	LAB	Start Date	RDSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			

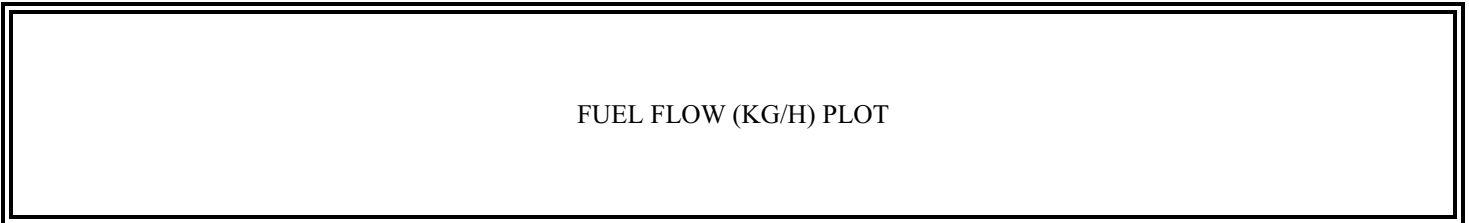
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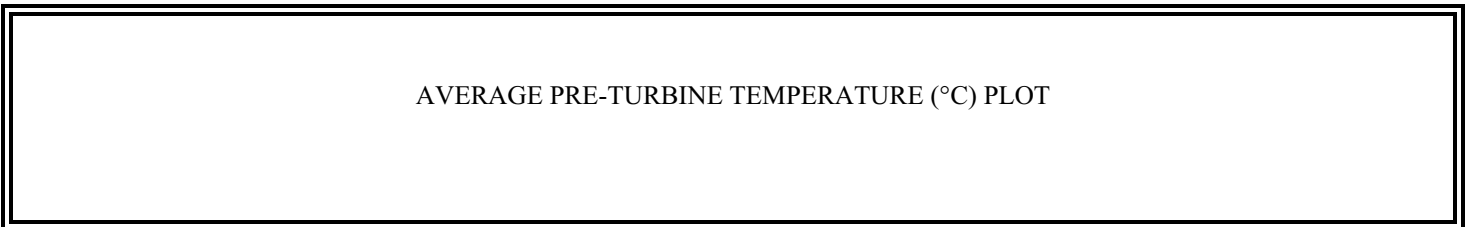
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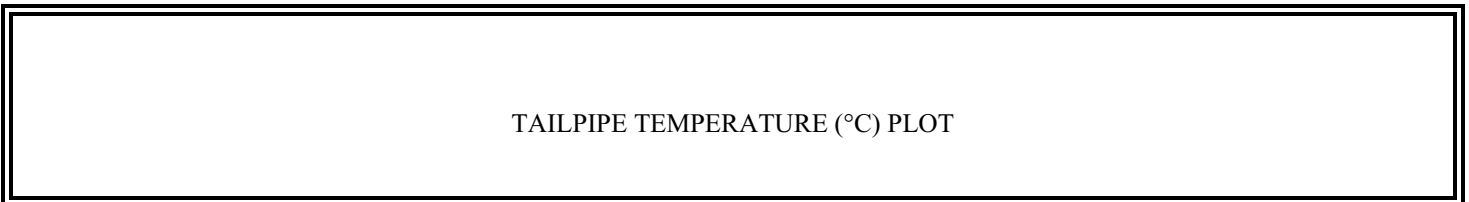
FFLOWIM



AVGPTTIM



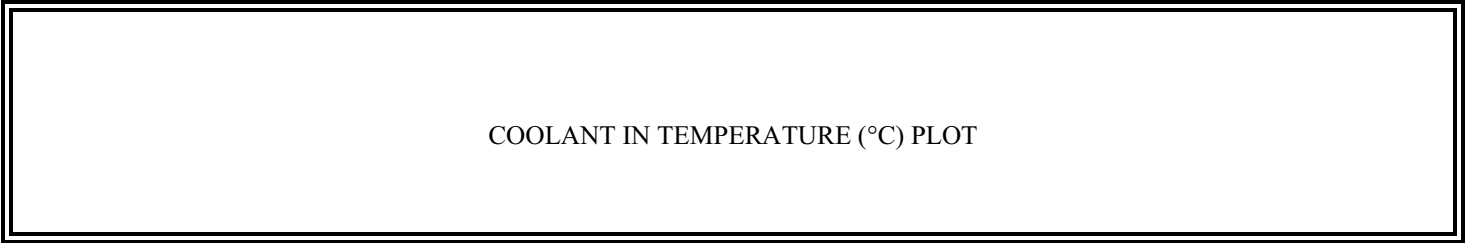
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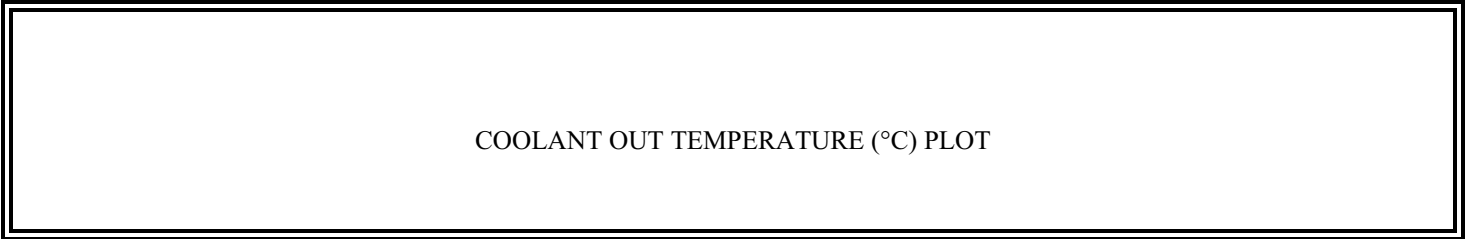
**TEST METHOD D5967  
FORM 10  
OPERATIONAL DATA**

Laboratory	LAB	Start Date	RDTSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			

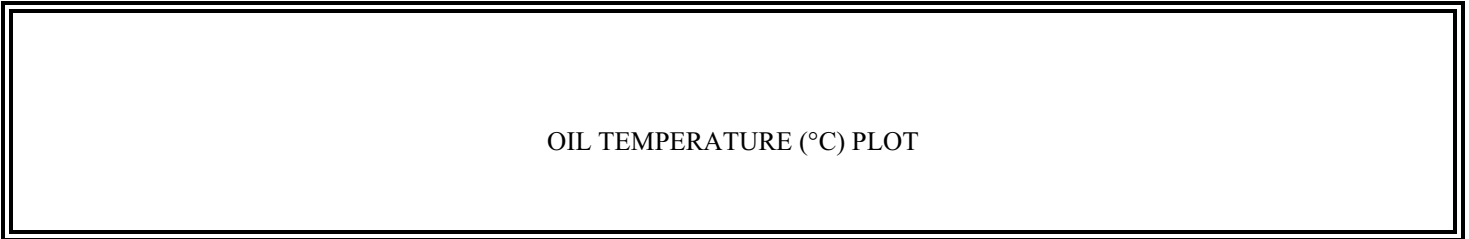
COLINTIM



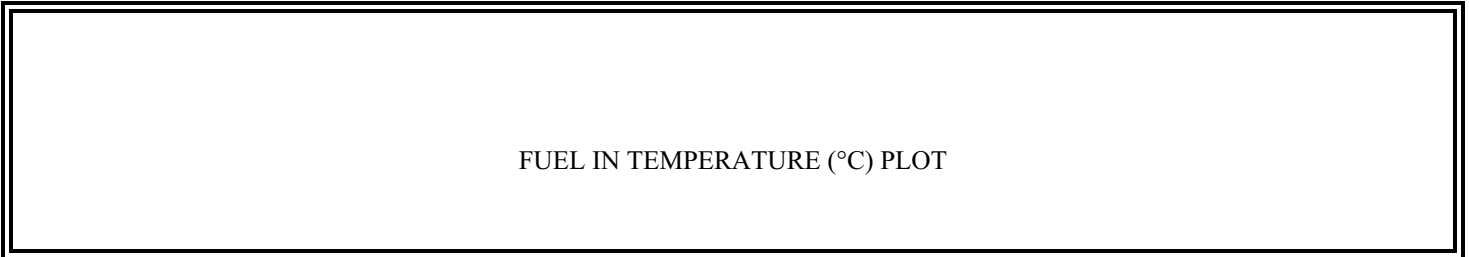
COLOUTIM



OTEMIM



FUELITIM



**TEST METHOD D5967  
FORM 11  
OPERATIONAL DATA**

Laboratory	LAB	Start Date	RDSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			

AITIM

INTAKE AIR TEMPERATURE (°C) PLOT
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IMANTIM

INTAKE MANIFOLD TEMPERATURE (°C) PLOT
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OILGIM

OIL GALLERY PRESSURE (KPA) PLOT
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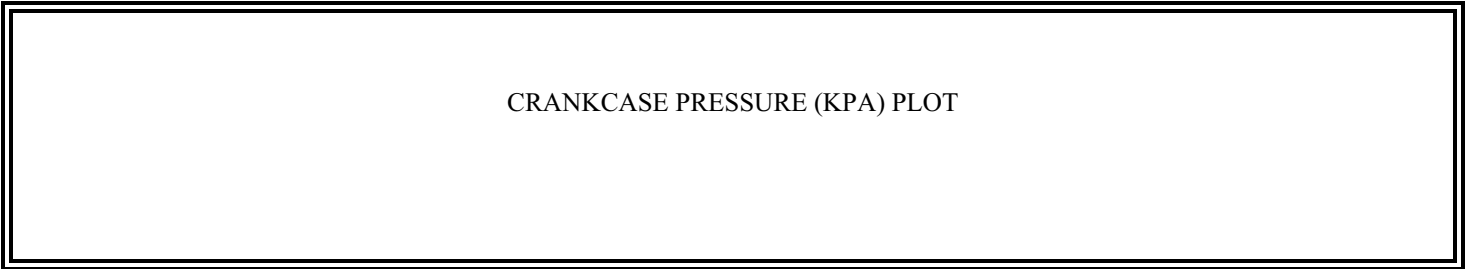
OILFPIM

OIL FILTER PRESSURE (KPA) PLOT
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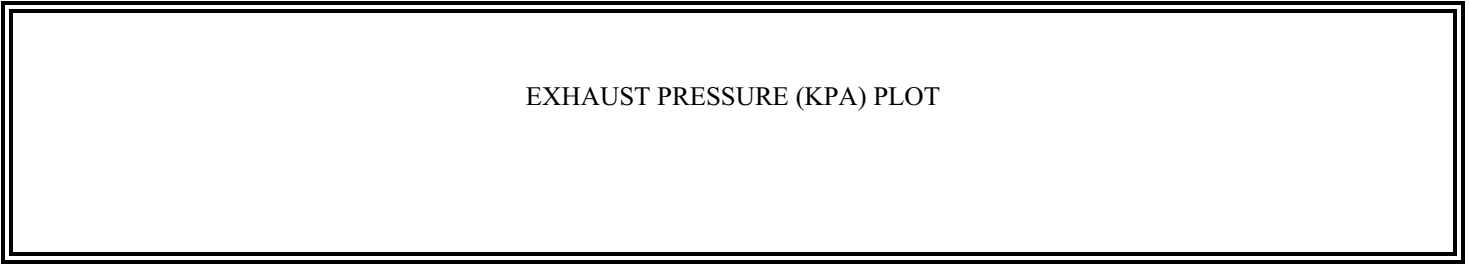
**TEST METHOD D5967  
FORM 12  
OPERATIONAL DATA**

Laboratory	LAB	Start Date	RDTSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			

CCPRESIM



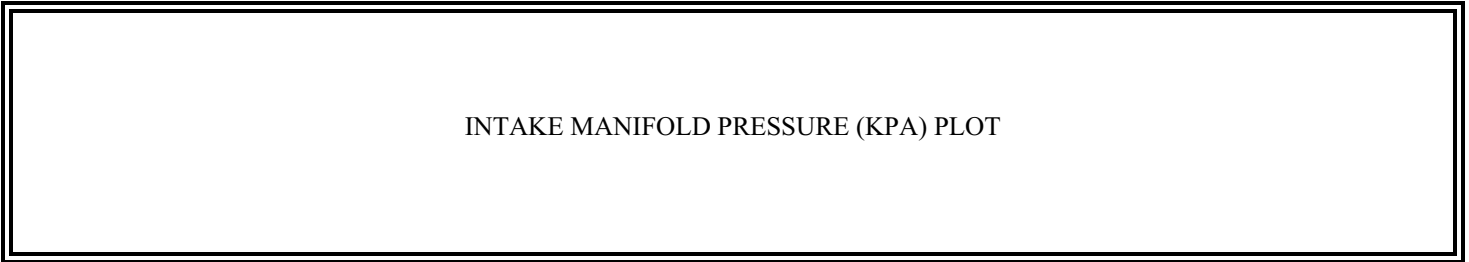
EXPRIM



INREIM



IMANPIM



**TEST METHOD D5967  
FORM 13  
ROTATIONAL VISCOSITY ANALYSIS SUMMARY**

Laboratory	LAB	Start Date	RDTSTRT	DTSTRT
Test Number <sup>B</sup>	TESTNUM			
Oil Code	CMIR	OILCODE		
T-8 Formulation/Stand Code:	FORMT8			
T-8E Formulation/Stand Code:	FORMT8E			

Hours	Viscosity at 100 deg C (mPa-s)		Rate Index	
	Increasing	Decreasing	Increasing	Decreasing
TST_H000	RTVIH000	RTVDH000	RTRIH000	RTRDH000
TST_H025	RTVIH025	RTVDH025	RTRIH025	RTRDH025
TST_H050	RTVIH050	RTVDH050	RTRIH050	RTRDH050
TST_H075	RTVIH075	RTVDH075	RTRIH075	RTRDH075
TST_H100	RTVIH100	RTVDH100	RTRIH100	RTRDH100
TST_H125	RTVIH125	RTVDH125	RTRIH125	RTRDH125
TST_H150	RTVIH150	RTVDH150	RTRIH150	RTRDH150
TST_H175	RTVIH175	RTVDH175	RTRIH175	RTRDH175
TST_H200	RTVIH200	RTVDH200	RTRIH200	RTRDH200
TST_H225	RTVIH225	RTVDH225	RTRIH225	RTRDH225
TST_H250	RTVIH250	RTVDH250	RTRIH250	RTRDH250
TST_H275	RTVIH275	RTVDH275	RTRIH275	RTRDH275
TST_H300	RTVIH300	RTVDH300	RTRIH300	RTRDH300



**TEST METHOD D5967**  
**Form 14**  
**American Chemistry Council Code of Practice**  
**Test Laboratory Conformance Statement**

Test Laboratory		SUBLAB			
Test Sponsor		TSTSPON1			
T8E Formulation / Stand Code		FORMT8E			
Test Number		TESTNUM			
Start Date	DTSTRT	Start Time	STRTTIME	Time Zone	TZONE

**Declarations**

- No. 1 All requirements of the ACC Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes YESRQMET No NORQMET \*
- No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other) including all updates issued by the organization responsible for the test, were met. Yes YESFULL No NOFULL \*
- If the response to this Declaration is “No”, does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory? Yes YESNODEC \* No NONODEC
- No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes YESDEV \* No NODEV (*This currently applies only to specific deviations identified in the ASTM Information Letter System*)

**Check The Appropriate Conclusion**

INCLUDE	Operational review of this test indicates that the results should be included in the Multiple Test Acceptance Criteria calculations.
DONOTINC	*Operational review of this test indicates that the results should not be included in the Multiple Test Acceptance Criteria calculations.

Note: *Supporting comments are required for all responses identified with an asterisk.*

Comments	
ACCCOMM1	
ACCCOMM2	
ACCCOMM3	
ACCCOMM4	

SUBSIGIM \_\_\_\_\_  
 Signature

SUBDATE \_\_\_\_\_  
 Date

SUBNAME \_\_\_\_\_  
 Typed Name

SUBTITLE \_\_\_\_\_  
 Title

**TEST METHOD D5967**  
**Form 14A**  
**American Chemistry Council Code of Practice**  
**Test Laboratory Conformance Statement**

Test Laboratory		SUBLAB			
Test Sponsor		TSTSPON1			
T8 Formulation / Stand Code		FORMT8			
Test Number		TESTNUM			
Start Date	DTSTRT	Start Time	STRTTIME	Time Zone	TZONE

**Declarations**

- No. 1 All requirements of the ACC Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes YESRQMT8 No NORQMET8 \*
- No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other) including all updates issued by the organization responsible for the test, were met. Yes YESFULT8 No NOFULLT8 \*
- If the response to this Declaration is “No”, does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory? Yes YESNODT8 \* No NONODET8
- No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes YESDEVT8 \* No NODEVT8 (*This currently applies only to specific deviations identified in the ASTM Information Letter System*)

***Check The Appropriate Conclusion***

INCLUDT8	Operational review of this test indicates that the results should be included in the Multiple Test Acceptance Criteria calculations.
DONOTIT8	*Operational review of this test indicates that the results should not be included in the Multiple Test Acceptance Criteria calculations.

Note: *Supporting comments are required for all responses identified with an asterisk.*

<b>Comments</b>	
ACCCM1T8	
ACCCM2T8	
ACCCM3T8	
ACCCM4T8	

SUBSIGIM  
 \_\_\_\_\_  
 Signature

SUBDATE  
 \_\_\_\_\_  
 Date

SUBNAME  
 \_\_\_\_\_  
 Typed Name

SUBTITLE  
 \_\_\_\_\_  
 Title