Form 1

Version   VIII VERSION 20030815 BETA
Conducted For

TSTSPON1

TSTSPON2

LABVALID	V = Valid
	I = Invalid

TSTOIL	NR = Non-reference oil
	RO = Reference oil

Test Number			
Test Stand	Power Section	Number of Runs on Power Section Since Calibration Test	Total Runs on Power Section
STAND	ENGINE	ENRUNSR	TOTENRUN
Date Completed: DTCOMP		Completion Time: EOTTIME	
Oil Code: 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 Sequence VIII Test Method D6709 and the appropriate amendments through the Information Letter System. The remarks included in this report describe anomalies associated with this test.

SUBMITTED BY:

SUBLAB
—————————————————————————
Testing Laboratory

SUBSIGIM
—————————————————————————
Signature

SUBNAME
—————————————————————————
Typed Name

SUBTITLE
—————————————————————————
Title

Form 2

Sequence VIII Engine Evaluation of Engine Oils

Table of Contents

Sequence VIII Engine Evaluation of Engine Oils
Form 3
Summary of Test Method

The Sequence VIII test is designed to evaluate crankcase lubricating oils for their copper and lead corrosion control capabilities. It also evaluates shear stability under high temperature operating conditions.

The Sequence VIII involves steady state operation of the single cylinder CLR oil evaluation engine. After a 4-hour break-in and a 1/2-hour flush, the engine is operated under constant speed, air-fuel ratio and fuel flow conditions for an additional 40 hours. Prior to each run, the engine is thoroughly cleaned, and pertinent measurements of the engine parts are taken. A new piston, piston rings, and copper/lead connecting rod bearing are installed. The cylinder head is also reconditioned.

The key operating conditions for this procedure are as follows:

Parameter	Set Point
Duration	40 h
Speed	3150 ± 25 r/min
Load	Adjusted to provide proper fuel flow at the specified Air-to-Fuel Ratio
Fuel Flow	2.25 ± 0.11 kg/h
Air-to-Fuel Ratio	13.43 ± 0.5
Engine Jacket Out Coolant Temperature	93.5 ± 1°C
Engine Jacket Coolant Temperature Delta	5.6 ± 1°C
Gallery Oil Temperature	135.0 or 143.5 ± 1°C[B]
Crankcase Off Gas	850 ±28 SCL/h[A]

[A] Controlled by adding sufficient ambient air to rocker box to achieve an Off Gas Flow of 30 ft^3/h
[B] 135°C for SAE 5W, 10W; 143.5°C for SAE 20,30,40,50 and multi-viscosity grade oils.

This test utilizes an unleaded fuel named "KA24E" which has a green identifying dye. It is supplied by Haltermann Products.

At the conclusion of the test, the engine is disassembled and the performance of the oil being tested is judged by the following:
1) By the weight loss of the copper/lead big end connecting rod bearing.
2) By periodic oil sample analysis.

Sequence VIII Engine Evaluation of Engine Oils
Form 4
Test Results

Laboratory	LAB	Oilcode	OILCODE	
Date Completed	DTCOMP		Time Completed	EOTTIME
Test Number	TESTNUM			
Formulation/Stand	FORM			

SAE Viscosity	SAEVISC	Oil Temperature (135.0° or 143.5°C)	OILTEMP
Laboratory Oil Code	LABOCODE	Date Started	DTSTRT
Test Fuel Type	FUELTYPE	Time Started	STRTTIME
Test Fuel Lot	FUELBTID	Bearing Batch No.	BEARBAT
Bearing Oil Storage Lead, ppm[A]	BEARLEAD	Bearing Lot	BEARLOT
Test Length	TESTLEN	Industry Reference Oil Code[A]	IND

Bearing Weight Loss Summary	
Test Length @ Measurement, hours	TST_H040
Top Bearing Half, mg	BWLTH040
Bottom Bearing Half, mg	BWLBH040
Total, mg	TBWLH040
Industry Correction Factor	BWL_CF
Severity Adjustment (non-reference tests only)	BWL_SA
Final Bearing Weight Loss, mg	BWLFNL

Hours	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Stripped Viscosity cSt @100°C
New Oil	VIS_HNEW	VIS_H010	
10	VIS1HNEW	VIS1H010	SVIS100

Test Stand/Power Section Reference History					
Stand No.	RSTANI	Power Section No.	RENGINE	Runs on Power Section	RTOTRUN
Bearing Batch No.		RBEARBAT	Bearing Lot No.		RBEARLOT
Industry Reference Oil Code		RIND	Stripped Viscosity, cSt		RSVIS100
Completion Date		RDTCOMP	Completion Time		REOTTIME
Total Bearing Weight Loss, mg		RTBWH040	Final Bearing Weight Loss, mg		RBWLFNL
Oil Code	ROILCODE				

[A] Reference Oil Tests Only

Sequence VIII Engine Evaluation of Engine Oils
Form 5
Operational Summary

Laboratory	LAB	Oilcode	OILCODE	
Date Completed	DTCOMP	Time Completed	EOTTIME	
Test Number	TESTNUM			
Formulation/Stand	FORM			

Test Parameter	Specification	Minimum	Maximum	Average
Speed, r/min	3150 ± 25	IRPM	XRPM	ARPM
Air-to-Fuel Ratio	13.43 ± 0.5	IAFR	XAFR	AAFR
Fuel Flow, kg/h	2.25 ± 0.11	IFFLO	XFFLO	AFFLO
Output, W	Record	IPWR	XPWR	APWR
Oil Heater Input, W (optional)	Record	IOHTRIN	XOHTRIN	AOHTRIN
Crankcase Off Gas, L/h	850 ± 28	ICCOG	XCCOG	ACCOG
Temperatures	**Specification**	**Minimum**	**Maximum**	**Average**
Gallery Oil[A], °C	143.5 or 135.0 ± 1	IGALT	XGALT	AGALT
Coolant In, °C	Record	ICOLIN	XCOLIN	ACOLIN
Coolant Out, °C	93.5 ± 1	ICOLOUT	XCOLOUT	ACOLOUT
Coolant Delta, °C	5.6 ± 1	ICOLDT	XCOLDT	ACOLDT
Intake Air, °C	Record	IINAIRT	XINAIRT	AINAIRT
Pressures	**Specification**	**Minimum**	**Maximum**	**Average**
Oil, kPa	276 ± 14	IOILPRS	XOILPRS	AOILPRS
Intake Manifold Vacuum, kPa	Record	IIMNVAC1	XIMNVAC1	AIMNVAC1
Exhaust, kPa	0 to 3.4	IEXPR	XEXPR	AEXPR
Crankcase Vacuum, kPa	0.50 ± 0.12	ICCV	XCCV	ACCV
Spark Advance, °BTDC	35 ± 1	ISPKTIM	XSPKTIM	ASPKTIM
Blowby, L/h	Record	IBLOBY	XBLOBY	ABLOBY

Oil Consumption[B]	Initial Oil Charge (ml)	New Oil Added (ml)	Oil Samples (ml)	Final Oil Drain (ml)
	OILINIT	OILADD	OILSMPL	OILDRAIN
			Total Oil Consumption:	OILCON

[A] 135°C for SAE 5W, 10W; 143.5°C for SAE 20,30,40,50 and multi-viscosity grade oils.
[B] Total Oil Consumption = (Initial Oil Charge + New Oil Added) – (Oil Samples + Final Oil Drain)

Sequence VIII Engine Evaluation of Engine Oils
Form 6
Parts Measurement and Critical Parts Listing

Laboratory	LAB	Oilcode	OILCODE	
Date Completed	DTCOMP	Time Completed	EOTTIME	
Test Number	TESTNUM			
Formulation/Stand	FORM			

Power Section Measurements, mm				
Measurement	Specification	Minimum	Maximum	Average
Valve Stem Clearance in Guide, Inlet	0.0508 – 0.1016	IVSCIN	XVSCIN	AVSCIN
Valve Stem Clearance in Guide, Exhaust	0.0762 – 0.1270	IVSCEX	XVSCEX	AVSCEX
Connecting Rod Bearing Clearance	0.0610 – 0.0762	ICRODCL	XCRODCL	ACRODCL
Main Bearing Clearance, Front	0.0508 – 0.0762	IMBCF	XMBCF	AMBCF
Main Bearing Clearance, Rear	0.0508 – 0.0762	IMBCR	XMBCR	AMBCR
Connecting Rod Journal Out-of-Round	0.0254 Maximum		XCRODOR	

Runs on Liner	LINRUN	Liner may be used as long as the piston-to-liner clearance is in the specified range.
Piston to Liner Clearance	PISLINCL	0.0305 to 0.0635 mm

Critical Parts Listing	
Parts	ID Code
Crankshaft	CRANKID
Camshaft	CAMSN
Main Bearings	MBEARID
Camshaft Bearings	CAMBRID
Connecting Rod	CRODID
Piston	PISTSN
Cylinder Liner	CLINID

Sequence VIII Engine Evaluation of Engine Oils
Form 7
Downtime Occurrences and Other Comments

Laboratory	LAB	Oilcode	OILCODE		
Date Completed	DTCOMP		Time Completed	EOTTIME	
Test Number	TESTNUM				
Formulation/Stand	FORM				

Number of Downtime Occurrences		DWNOCR		
Test Hours	**Date**	**Downtime**	**Reasons**	
DOWNR00	DDATR001	DTIMR001	DREAR001	
DOWNR00	DDATR002	DTIMR002	DREAR002	
DOWNR00	DDATR003	DTIMR003	DREAR003	
DOWNR00	DDATR004	DTIMR004	DREAR004	
DOWNR00	DDATR005	DTIMR005	DREAR005	
DOWNR00	DDATR006	DTIMR006	DREAR006	
DOWNR00	DDATR007	DTIMR007	DREAR007	
DOWNR00	DDATR008	DTIMR008	DREAR008	
DOWNR00	DDATR009	DTIMR009	DREAR009	
DOWNR01	DDATR010	DTIMR010	DREAR010	
DOWNR01	DDATR011	DTIMR011	DREAR011	
DOWNR01	DDATR012	DTIMR012	DREAR012	
DOWNR01	DDATR013	DTIMR013	DREAR013	
DOWNR01	DDATR014	DTIMR014	DREAR014	
DOWNR01	DDATR015	DTIMR015	DREAR015	
		TOTLDOWN	**Total Downtime**	

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

Sequence VIII Engine Evaluation of Engine Oils
Form 7A
Downtime Occurrences and Other Comments

Laboratory	LAB	Oilcode	OILCODE
Date Completed	DTCOMP	Time Completed	EOTTIME
Test Number	TESTNUM		
Formulation/Stand	FORM		

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**

Other Comments	
Number of Comment Lines	TOTCOM
	OCOMR015
	OCOMR016
	OCOMR017
	OCOMR018
	OCOMR019
	OCOMR020
	OCOMR021
	OCOMR022
	OCOMR023
	OCOMR024
	OCOMR025
	OCOMR026
	OCOMR027
	OCOMR028

Sequence VIII Engine Evaluation of Engine Oils
Form 7B
Downtime Occurrences and Other Comments

Laboratory	LAB	Oilcode	OILCODE		
Date Completed	DTCOMP		Time Completed	EOTTIME	
Test Number	TESTNUM				
Formulation/Stand	FORM				

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**	

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

Sequence VIII Engine Evaluation of Engine Oils
Form 8
Operational Outlier Occurrences

Laboratory	LAB	Oilcode	OILCODE		
Date Completed	DTCOMP		Time Completed	EOTTIME	
Test Number	TESTNUM				
Formulation/Stand	FORM				

Number of Operational Outlier Occurrences: OUTOCR					
Test Hours	Parameter	Parameter Range	Reading	Time Out	Deviation Percentage
OUT_R(	OUTPR001	OPARR001	OREDR001	OTIMR0(	ODP_R001
OUT_R(	OUTPR002	OPARR002	OREDR002	OTIMR0(	ODP_R002
OUT_R(	OUTPR003	OPARR003	OREDR003	OTIMR0(	ODP_R003
OUT_R(	OUTPR004	OPARR004	OREDR004	OTIMR0(	ODP_R004
OUT_R(	OUTPR005	OPARR005	OREDR005	OTIMR0(	ODP_R005
OUT_R(	OUTPR006	OPARR006	OREDR006	OTIMR0(	ODP_R006
OUT_R(	OUTPR007	OPARR007	OREDR007	OTIMR0(	ODP_R007
OUT_R(	OUTPR008	OPARR008	OREDR008	OTIMR0(	ODP_R008
OUT_R(	OUTPR009	OPARR009	OREDR009	OTIMR0(	ODP_R009
OUT_R(	OUTPR010	OPARR010	OREDR010	OTIMR0	ODP_R010
OUT_R(	OUTPR011	OPARR011	OREDR011	OTIMR0	ODP_R011
OUT_R(	OUTPR012	OPARR012	OREDR012	OTIMR0	ODP_R012
OUT_R(	OUTPR013	OPARR013	OREDR013	OTIMR0	ODP_R013
OUT_R(	OUTPR014	OPARR014	OREDR014	OTIMR0	ODP_R014
OUT_R(	OUTPR015	OPARR015	OREDR015	OTIMR0	ODP_R015

Sequence VIII Engine Evaluation of Engine Oils
Form 8A
Operational Outlier Occurrences

Laboratory	LAB	Oilcode	OILCODE		
Date Completed	DTCOMP		Time Completed	EOTTIME	
Test Number		TESTNUM			
Formulation/Stand		FORM			

Number of Operational Outlier Occurrences: OUTOCR

Test Hours	Parameter	Parameter Range	Reading	Time Out	Deviation Percentage
OUT_R0	OUTPR016	OPARR016	OREDR016	OTIMR0	ODP_R016
OUT_R0	OUTPR017	OPARR017	OREDR017	OTIMR0	ODP_R017
OUT_R0	OUTPR018	OPARR018	OREDR018	OTIMR0	ODP_R018
OUT_R0	OUTPR019	OPARR019	OREDR019	OTIMR0	ODP_R019
OUT_R0	OUTPR020	OPARR020	OREDR020	OTIMR0	ODP_R020
OUT_R0	OUTPR021	OPARR021	OREDR021	OTIMR0	ODP_R021
OUT_R0	OUTPR022	OPARR022	OREDR022	OTIMR0	ODP_R022
OUT_R0	OUTPR023	OPARR023	OREDR023	OTIMR0	ODP_R023
OUT_R0	OUTPR024	OPARR024	OREDR024	OTIMR0	ODP_R024
OUT_R0	OUTPR025	OPARR025	OREDR025	OTIMR0	ODP_R025
OUT_R0	OUTPR026	OPARR026	OREDR026	OTIMR0	ODP_R026
OUT_R0	OUTPR027	OPARR027	OREDR027	OTIMR0	ODP_R027
OUT_R0	OUTPR028	OPARR028	OREDR028	OTIMR0	ODP_R028
OUT_R0	OUTPR029	OPARR029	OREDR029	OTIMR0	ODP_R029
OUT_R0	OUTPR030	OPARR030	OREDR030	OTIMR0	ODP_R030

Sequence VIII Engine Evaluation of Engine Oils
Form 8B
Operational Outlier Occurrences

Laboratory	LAB	Oilcode	OILCODE		
Date Completed	DTCOMP		Time Completed	EOTTIME	
Test Number	TESTNUM				
Formulation/Stand	FORM				

Number of Operational Outlier Occurrences: OUTOCR					
Test Hours	Parameter	Parameter Range	Reading	Time Out	Deviation Percentage
OUT_R(	OUTPR031	OPARR031	OREDR031	OTIMR0	ODP_R031
OUT_R(	OUTPR032	OPARR032	OREDR032	OTIMR0	ODP_R032
OUT_R(	OUTPR033	OPARR033	OREDR033	OTIMR0	ODP_R033
OUT_R(	OUTPR034	OPARR034	OREDR034	OTIMR0	ODP_R034
OUT_R(	OUTPR035	OPARR035	OREDR035	OTIMR0	ODP_R035
OUT_R(	OUTPR036	OPARR036	OREDR036	OTIMR0	ODP_R036
OUT_R(	OUTPR037	OPARR037	OREDR037	OTIMR0	ODP_R037
OUT_R(	OUTPR038	OPARR038	OREDR038	OTIMR0	ODP_R038
OUT_R(	OUTPR039	OPARR039	OREDR039	OTIMR0	ODP_R039
OUT_R(	OUTPR040	OPARR040	OREDR040	OTIMR0	ODP_R040
OUT_R(	OUTPR041	OPARR041	OREDR041	OTIMR0	ODP_R041
OUT_R(	OUTPR042	OPARR042	OREDR042	OTIMR0	ODP_R042
OUT_R(	OUTPR043	OPARR043	OREDR043	OTIMR0	ODP_R043
OUT_R(	OUTPR044	OPARR044	OREDR044	OTIMR0	ODP_R044
OUT_R(	OUTPR045	OPARR045	OREDR045	OTIMR0	ODP_R045

Sequence VIII Engine Evaluation of Engine Oils
Form 9
Deviation of Operational Parameters

Laboratory	LAB	Oilcode	OILCODE	
Date Completed	DTCOMP	Time Completed	EOTTIME	
Test Number	TESTNUM			
Formulation/Stand	FORM			

Primary Parameter	Maximum Permitted Deviation Percentage	Calculated Total Deviation Percentage
Engine Oil Gallery Temperature	2.5%	GALTDP
Engine Coolant Outlet Temperature	2.5%	COLOUTDP
Engine Coolant Temperature Delta	2.5%	COLDTDP
Fuel Flow	2.5%	FFLODP
Crankcase Off Gas	2.5%	CCOGDP
Oil Pressure	2.5%	OILPDP
Secondary Parameter		
Engine Speed	5%	RPMDP
Air-to-Fuel Ratio	5%	AFRDP
Spark Advance	5%	SPRKADP
Exhaust Pressure	5%	EXPRDP
Crankcase Vacuum	5%	CCVACDP

Sequence VIII Engine Evaluation of Engine Oils
Form 10
Data Acquisition System Details

Laboratory	LAB	Oilcode	OILCODE		
Date Completed	DTCOMP		Time Completed	EOTTIME	
Test Number	TESTNUM				
Formulation/Stand	FORM				

Parameter (1)	Sensing Device (2)	Calibration Frequency (3)	Record Device (4)	Observation Frequency (5)	Record Frequency (6)	Log Frequency (7)	System Response (8)
TEMPERATURES							
Oil Gallery	OILISENS	OILICALF	OILIRECD	OILIOBSF	OILIRECF	OILILOGF	OILISYSR
Coolant Out	COTSENS	COTCALF	COTRECD	COTOBSF	COTRECF	COTLOGF	COTSYSR
Coolant Delta	COLDSENS	COLDCALF	COLDRECI	COLDOBSF	COLDRECF	COLDLOGF	COLDSYSR
OTHER							
Fuel Flow	FFLOSENS	FFLOCALF	FFLORECD	FFLOOBSF	FFLORECF	FFLOLOGF	FFLOSYSR
Engine Speed	RPMSENS	RPMCALF	RPMRECD	RPMOBSF	RPMRECF	RPMLOGF	RPMSYSR
Air-to-Fuel Ratio	AFRSENS	AFRCALF	AFRRECD	AFROBSF	AFRRECF	AFRLOGF	AFRSYSR
Exhaust Pressure	EXPRSENS	EXPRCALF	EXPRRECI	EXPROBSF	EXPRRECF	EXPRLOGF	EXPRSYSR
Crankcase Off Gas	CCOGSENS	CCOGCALF	CCOGRECI	CCOGOBSF	CCOGRECF	CCOGLOGF	CCOGSYSR
Oil Pressure	OPSISENS	OPSICALF	OPSIRECD	OPSIOBSF	OPSIRECF	OPSILOGF	OPSISYSR
Crankcase Vacuum	CCVSENS	CCVCALF	CCVRECD	CCVOBSF	CCVRECF	CCVLOGF	CCVSYSR

LEGEND:
(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 -HANDLOG SHEET
          DL -AUTOMATIC DATA LOGGER
          SC - STRIP CHART RECORDER
          CIM - COMPUTER, USING MANUAL DATA ENTRY
          C/D -COMPUTER, USING DIRECT I/O ENTRY
(5)   DATA ARE OBSERVED BUT ONLY RECORDED IF 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
(9)   SEE ANNEX All FOR PROCEDURE TO DETERMINE SYSTEM RESPONSE OF THE
          CHARACTERISTICS OF THE ACQUISITION SYSTEM.

Sequence VIII Engine Evaluation of Engine Oils
Form 11

American Chemistry Council Code of Practice
Test Laboratory Conformance Statement

Test Laboratory	SUBLAB			
Test Sponsor	TSTSPON1			
Formulation / Stand Code	FORM			
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 ESRQMET   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 _____   SUBDATE _____
Signature   Date

SUBNAME _____   SUBTITLE _____
Typed Name   Title