TWO-STROKE-CYCLE GASOLINE ENGINE LUBRICANT EVALUATION

D4858 ASTM TC SEQUENCE III Test Procedure
Title / Validity Declaration Page

VERSION: TC VERSION 20020115 BETA

CONDUCTED FOR

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

C	V = VALID
	I = INVALID

Non-Reference		
Primary Oil Code:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
Test Number:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
EOT Date:	YYYYMMDD	
EOT Time:	HH:MM	
Alternate Codes:	CCCCCCCCCCCCCCC	CCCCCCCCCCCCCCC

I certify that test number CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC was conducted to the best of my knowledge, in accordance with the conditions specified in Test Method D4858. The results of this test indicate that the candidate lubricant CCCCCCC demonstrated performance equal to or better than that of the reference lubricant within the tolerences specified in Test Method D4858.

SUBMITTED BY: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Testing Laboratory

Signature Image
Signature

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Typed Name

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Title

TWO-STROKE-CYCLE GASOLINE ENGINE LUBRICANT EVALUATION
ASTM TC SEQUENCE III

SUMMARY OF ENGINE TEST RESULTS
YAMAHA CE50S TIGHTENING TEST

Sponsor Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Test Number: CCCCCCCCCCCCCCCC
Start Date: YYYYMMDD CCCCCCCCCCCCC
Lab Code: CCCCCCCCCCCCCCCCCCCCC
Fuel Oil Ratio: CCCCC
E.O.T. Date: YYYYMMDD
Fuel Code: CCCCCCCCCC
Stand Number: CCCCC
Hours: CCCCC
Industry Oil Code: CCCCCC

Test Conditions Data

Miscellaneous	Maximum	Minimum	Average
Engine Speed, r/min	S1234	S1234	S1234
Observed Load, hp	S1.12	S1.12	S1.12
Corrected Load, hp*	S1.12	S1.12	S1.12
Fuel Flow, lb/h.	S1.12	S1.12	S1.12
Exhaust Back Press. in. H2O	S1.1	S1.1	S1.1
Barometer, in. Hg	S12.12	S12.12	S12.12

Temperature, ˚F			
Spark Plug	S123	S123	S123
Combustion Chamber	S123	S123	S123
Exhaust	S123	S123	S123
Fuel	S12	S12	S12
Intake Air, Carburetor	S12	S12	S12
Ambient	S12	S12	S12
Wet	S12	S12	S12
Dry	S12	S12	S12

	Preignition Major	Preignition Minor	Spark Plug Change	Exhaust Change
Totals	S12	S12	S12	S12

Previous Reference Data

Code	Test No.	Date	Preignition Major	Preignition Minor
CCCCCCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	YYYYMMDD	S12	S12
CCCCCCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	YYYYMMDD	S12	S12

[A]Corrected To:
Barometric Pressure - 29.92
Temperature - 60˚F

TWO-STROKE-CYCLE GASOLINE ENGINE LUBRICANT EVALUATION
ASTM TC SEQUENCE III

SUMMARY OF ENGINE TEST RESULTS
YAMAHA CE50S TIGHTENING TEST

Sponsor Code: _____ Lab Code: _____ Test Number: _____

Test Conditions Data

Test Hours	Preignition, ˚F Major	Minor	Spark Plug Change	Exhaust Change
S12.1	S12	S12	CCC	CCC

TWO-STROKE-CYCLE GASOLINE ENGINE LUBRICANT EVALUATION
ASTM TC SEQUENCE III

SUMMARY OF ENGINE TEST RESULTS
YAMAHA CE50S TIGHTENING TEST

Sponsor Code: _____ Lab Code: _____ Test Number: _____

Engine Inspection

	Merit Number
Piston Varnish	
Thrust	S1.1
Anti-Thrust	S1.1
Average	S1.1
Top Ring Land	S1.1
Second Ring Land	S1.1
Undercrown	S1.1
Ring Sticking	
Top Ring	S1.1
Second Ring	S1.1
Cylinder Liner Varnish	S1.1
Wristpin Varnish	S1.1
Wristpin Bearing Varnish	S1.1
Deposits	
Piston Crown	S1.1
Cylinder Head	S1.1
Exhaust Port Clogging	S1.1
Piston Scuffing	
Thrust	S1.1
Anti-Thrust	S1.1
Cylinder Linder Scuffing	S1.1
Total CRC Demerit	
Top Ring Land	S123.123
Second Ring Land	S123.123

TWO-STROKE-CYCLE GASOLINE ENGINE LUBRICANT EVALUATION

ASTM TC SEQUENCE III Test Procedure

Test Oil Code: CCCCCCCCCCCCCCCCCCCCCCCCC	**Test Number:** CCCCCCCCCCCCCCCCCCCC	**EOT Date:** YYYYMMDD

Total Number of Remarks or Deviations S12

Remark or Deviation

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

TWO-STROKE-CYCLE GASOLINE ENGINE LUBRICANT EVALUATION
ASTM TC SEQUENCE III

SUMMARY OF ENGINE TEST RESULTS

Lab: CC	**EOT Date:** YYYYMMDD	**End Time:** HH:MM
Stand: CCCCC	**Run Number:** CCCC	
Oilcode: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		
Formulation / Stand Code: CC-CCCCCCCCCC-C-C-CCCCCC-CC-CC-CCCCC		
Supplier: CCCCCCCCCCCCCCCCCCCC	**Batch Identifier:** CCCCCCCCCC	

Measurement	Specs.	Analysis	Test Method
Gravity, ˚API		S1.1	
Color		CCCCCCCC	
Doctor Test		CCCCCCCC	
Copper Corrosion, 3 h @ 212 ˚F	1 Maximum	S123	D 130
Reid Vapor Pressure, psig		S.1	
Research Octane Number		S1.1	
Motor Octane Number		S1.1	
(Research + Motor) / 2		S1.1	
Total Sulfur, % Weight	0.04 - 0.05	S1.12	D 2622
Gum, mg/100 mL		S.1	
Oxidation Stablility, min		S1234	
Lead, g/gal		S1.123	
Distillation, ˚C			
IBP	Report	S1234	D 86
10%	Report	S1234	D 86
50%	Report	S1234	D 86
90%	282 - 338	S1234	D 86
EP	Report	S1234	D 86
Recovery, %		S12.1	
Pona, % vol			
Paraffins + Napthenes		S12.1	
Olefin	Report	S12.1	D 1319
Aromatics % Vol.	28 - 33	S12.1	D 1319