



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

SUMMARY OF ENGINE TEST RESULTS  
YAMAHA CE50S TIGHTENING TEST

Sponsor Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCGCCCCC	Test Number: CCCCCCCCCC	Start Date: YYYMMDD
Lab Code: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCGCCCCC	Fuel Oil Ratio: CCCCC	E.O.T. Date: YYYMMDD
Fuel Code: CCCCCCCCCC	Stand Number: CCCCC	Hours: CCCCC
Industry Oil Code: CCCCC		

Test Conditions Data

<u>Miscellaneous</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
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

	<u>Preignition</u>		<u>Spark Plug</u>	<u>Exhaust</u>
	<u>Major</u>	<u>Minor</u>	<u>Change</u>	<u>Change</u>
Totals	S12	S12	S12	S12

Previous Reference Data

	<u>Code</u>	<u>Test No.</u>	<u>Date</u>	<u>Preignition</u>	<u>Preignition</u>
				<u>Major</u>	<u>Minor</u>
CCCCCCCC	CCCCCCCC	CCCCCCCC	YYMMDD	S12	S12
CCCCCCCC	CCCCCCCC	CCCCCCCC	YYMMDD	S12	S12

<sup>A</sup>Corrected To:  
Barometric Pressure - 29.92  
Temperature - 60°F

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YAMAHA CE50S TIGHTENING TEST

CC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CC

Sponsor Code:    Lab Code:    Test Number:

Test Conditions Data

<u>Test Hours</u>	Preignition, °F		Spark Plug <u>Change</u>	Exhaust <u>Change</u>
	<u>Major</u>	<u>Minor</u>		
S12.1	S12	S12	CCC	CCC

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SUMMARY OF ENGINE TEST RESULTS  
YAMAHA CE50S TIGHTENING TEST

CC  
Sponsor Code: \_\_\_\_\_ Lab Code: \_\_\_\_\_ Test Number: \_\_\_\_\_

Engine Inspection

	<u>Merit Number</u>
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**

<b>Test Oil Code:</b> CCCCCCCCCCCCCCCCCC	<b>Test Number:</b> CCCCCCCCCCCCCCCCCC	<b>EOT Date:</b> CCCCCCCCCC
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Total Number of Remarks or Deviations

S12
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Remark or Deviation

CC

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

SUMMARY OF ENGINE TEST RESULTS

<b>Lab:</b> CC	<b>EOT Date:</b> YYYYMMDD	<b>End Time:</b> HH:MM
<b>Stand:</b> CCCCC	<b>Run Number:</b> CCCC	
<b>Oilcode:</b> CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		
<b>Formulation / Stand Code:</b> CC-CCCCCCCCC-C-C-CCCCCC-CC-CC-CCCC		
<b>Supplier:</b> CCCCCCCCCCCCCCCCCC		<b>Batch Identifier:</b> 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 Stability, min		S1234	
Lead, g/gal		S1.123	
<b>Distillation, °C</b>			
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	
<b>Pona, % vol</b>			
Paraffins + Napthenes		S12.1	
Olefin	Report	S12.1	D 1319
Aromatics % Vol.	28 - 33	S12.1	D 1319