



OIL REPORT

LAB NUMBER: E03211

UNIT ID: 95 MERC 502

REPORT DATE: 2/15/2010

CLIENT ID: 39582

CODE: 63/284

PAYMENT: Prepaid

UNIT

MAKE/MODEL: Mercruiser 502 CID V-8
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Gasoline Oil
OIL USE INTERVAL: Hours

CLIENT

THOMAS WILLIAMS
6 HARBOR WATCH DRIVE
#307
CHESAPEAKE, VA 23320

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COMMENTS

THOMAS: Wear was well above average in the first sample from your Mercruiser. The high aluminum is likely from the upper end, while lead and tin are from the bearings. Iron can be from any steel part. Silicon may show an abrasive contaminant in the oil, or with coolant it may be from coolant or cooling water. Our universal averages show typical wear from this engine model after an oil run of ~30 hours. We suggest having someone take a close look at your engine. Things don't look very good from here.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	250							
	Sample Date	02/14/10							
	Make Up Oil Added								
	ALUMINUM	39		39					5
	CHROMIUM	2		2					2
	IRON	85		85					38
	COPPER	50		50					61
	LEAD	28		28					8
	TIN	14		14					1
	MOLYBDENUM	15		15					30
	NICKEL	1		1					0
	MANGANESE	1		1					1
	SILVER	0		0					0
	TITANIUM	0		0					0
	POTASSIUM	4		4					13
	BORON	134		134					100
	SILICON	37		37					16
	SODIUM	60		60					62
	CALCIUM	1321		1321					1533
	MAGNESIUM	262		262					681
	PHOSPHORUS	632		632					883
	ZINC	856		856					1038
	BARIUM	0		0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	67.8					
	cSt Viscosity @ 100°C	12.38					
	Flashpoint in °F	375	>385				
	Fuel %	0.5	<2.5				
	Antifreeze %	?	0.0				
	Water %	0.0	<0.2				
	Insolubles %	0.4	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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