



OIL REPORT

LAB NUMBER: H79799
 REPORT DATE: 9/23/2016
 CODE: 63/32

UNIT ID: 01 AC 500M
 CLIENT ID: 63851
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Suzuki Motorcycle 500cc	OIL TYPE & GRADE: Shell Rotella T6 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 200 Miles
	ADDITIONAL INFO: Artic Cat	

CLIENT	JOHN HUTCHINS	PHONE: (207) 326-9400
	PO BOX 9	FAX:
	PENOBSCOT, ME 04476	ALT PHONE:
		EMAIL: penobscotuf@yahoo.com

COMMENTS
 JOHN: There was a little fuel dilution in this sample, but 1.8% is still a reasonable amount of fuel. It takes about 2.0% fuel or more before we start to consider fuel dilution a problem. Note that the viscosity was a little thin here, and maybe the fuel dilution helped with that, though it looks like this engine may just sheer the oil a little bit on its own too, and that's fine. Wear numbers look quite good, with some reductions since last time. Of course the shorter oil run may be partially to thank. The new cam looks like it's doing okay. Another good report, overall!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	200	UNIT / LOCATION AVERAGES	500				UNIVERSAL AVERAGES
	MI/HR on Unit	7,000		6,000				
	Sample Date	9/14/2016		9/7/2015				
	Make Up Oil Added			0 qts				
ALUMINUM	3	4	5				14	
CHROMIUM	1	1	0				1	
IRON	9	13	16				32	
COPPER	8	13	17				11	
LEAD	0	1	1				6	
TIN	0	0	0				0	
MOLYBDENUM	55	61	67				51	
NICKEL	2	2	1				0	
MANGANESE	0	0	0				0	
SILVER	0	0	0				0	
TITANIUM	0	0	0				0	
POTASSIUM	0	3	6				3	
BORON	53	110	167				45	
SILICON	9	10	10				13	
SODIUM	6	8	10				18	
CALCIUM	1002	1871	2740				2202	
MAGNESIUM	932	487	41				197	
PHOSPHORUS	1036	948	859				965	
ZINC	1240	1119	998				1122	
BARIUM	0	1	1				0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	61.3	65-78	62.5			
	cSt Viscosity @ 100°C	10.58	11.6-15.3	10.93			
	Flashpoint in °F	340	>375	415			
	Fuel %	1.8	<2.0	<0.5			
	Antifreeze %	0.0	0.0	0.0			
	Water %	0.0	0.0	0.0			
	Insolubles %	0.2	<0.6	TR			
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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