



# OIL REPORT

LAB NUMBER: H94216      UNIT ID: 01 AC 500M  
 REPORT DATE: 11/28/2016      CLIENT ID: 63851  
 CODE: 63/32      PAYMENT: CC: Visa

<b>UNIT</b>	MAKE/MODEL: Suzuki Motorcycle 500cc	OIL TYPE & GRADE: Shell Rotella T6 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 508 Miles
	ADDITIONAL INFO: Artic Cat	

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

**COMMENTS**  
 JOHN: The spectral results don't show any issues for your Arctic Cat. Internal parts are wearing well with one another and no mechanical issues stand out in this data. The only concern is the moisture that showed up. It wasn't enough to quantify or keep us from checking the flashpoint, so maybe it was introduced while sampling. It's not from coolant since potassium and sodium are low, so it's hard to say what the source might be. It didn't cause any trouble from what we can see, so let's just see if it sticks around next time. The 1.0% fuel is fine. Excellent report, overall!

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	508	<b>UNIT / LOCATION AVERAGES</b>	200	500	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	7,508		7,000	6,000	
	Sample Date	11/16/2016		9/14/2016	9/7/2015	
	Make Up Oil Added	0 qts			0 qts	
ALUMINUM	1	3	3	5	13	
CHROMIUM	0	0	1	0	1	
IRON	4	10	9	16	29	
COPPER	7	11	8	17	11	
LEAD	0	0	0	1	5	
TIN	0	0	0	0	0	
MOLYBDENUM	57	60	55	67	52	
NICKEL	0	1	2	1	0	
MANGANESE	0	0	0	0	0	
SILVER	0	0	0	0	0	
TITANIUM	0	0	0	0	0	
POTASSIUM	3	3	0	6	3	
BORON	49	90	53	167	46	
SILICON	9	9	9	10	12	
SODIUM	8	8	6	10	17	
CALCIUM	804	1515	1002	2740	2047	
MAGNESIUM	1122	698	932	41	299	
PHOSPHORUS	997	964	1036	859	969	
ZINC	1162	1133	1240	998	1127	
BARIUM	0	0	0	1	0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	66.8	65-78	<b>61.3</b>	<b>62.5</b>
	cSt Viscosity @ 100°C	12.10	11.6-15.3	<b>10.58</b>	<b>10.93</b>
	Flashpoint in °F	<b>355</b>	>375	<b>340</b>	415
	Fuel %	1.0	<2.0	1.8	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0
	Water %	<b>POS</b>	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.2	TR
	TBN				
	TAN				
	ISO Code				

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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