



OIL REPORT

LAB NUMBER: H02360 UNIT ID: 01 AC 500M
 REPORT DATE: 9/17/2015 CLIENT ID: 63851
 CODE: 63/75 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Suzuki Motorcycle 500cc	OIL TYPE & GRADE: Mobil 1 0W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 500 Miles
	ADDITIONAL INFO: Artic Cat	

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COMMENTS JOHN: There's nothing obviously out of line for this ATV. Universal averages show typical wear levels for this type of engine after about 325 miles on the oil. Compared to those averages, it's perhaps a little strange to see copper as the dominant metal, but it's not high enough to be cautionary, so a problem at brass/bronze parts seems unlikely. The viscosity is a tad on the thin side for 0W/40, but that wasn't caused by fuel dilution and obviously didn't hurt anything as far as metals are concerned. Air and oil filtration are in great shape. Check back in 750 miles next time.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	500	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	6,000						
	Sample Date	9/7/2015						
	Make Up Oil Added	0 qts						
ALUMINUM	5	5					15	
CHROMIUM	0	0					1	
IRON	16	16					28	
COPPER	17	17					11	
LEAD	1	1					7	
TIN	0	0					1	
MOLYBDENUM	67	67					43	
NICKEL	1	1					0	
MANGANESE	0	0					0	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	6	6					4	
BORON	167	167					50	
SILICON	10	10					13	
SODIUM	10	10					23	
CALCIUM	2740	2740					2266	
MAGNESIUM	41	41					103	
PHOSPHORUS	859	859					929	
ZINC	998	998					1082	
BARIUM	1	1					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	62.5	63-76				
	cSt Viscosity @ 100°C	10.93	11.1-14.8				
	Flashpoint in °F	415	>375				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	TR	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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