



## OIL REPORT

LAB NUMBER: E77149

UNIT ID: 06 330I

REPORT DATE: 11/1/2011

CLIENT ID: 51434

CODE: 20/501

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: BMW 3.0L (M54B30) 6-cyl	OIL TYPE & GRADE: Total 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 12,000 KM
	ADDITIONAL INFO:	

CLIENT	ADAM VOLASKI	PHONE: (905) 334-2732
	235 SHERWAY GARDENS RD	FAX:
	SUITE 605	ALT PHONE:
	ETOBICOKE, ON M9C 4P2	EMAIL: adamvolasko@hotmail.com

COMMENTS	ADAM: Universal averages show typical wear levels for this type of engine after about 9,300 KM on the oil. Aluminum is the only metal a little on the high side showing some excessive piston wear. The other metals look great despite the long-ish oil run, so we're not ready to call the higher aluminum a problem just yet. It is, however, something to monitor. No fuel or coolant was found in the 5W/40 and air and oil filtration look great. The TBN was strong at 3.8 showing plenty of active additive; less than 1.0 is too low. Stick with 12,000 KM on the next oil and check back.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	12,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	110,000							
	Sample Date	10/18/11							
	Make Up Oil Added	0 qts							
	ALUMINUM	8	8						3
	CHROMIUM	0	0						0
	IRON	16	16						13
	COPPER	10	10						10
	LEAD	4	4						4
	TIN	2	2						1
	MOLYBDENUM	55	55						97
	NICKEL	0	0						0
	MANGANESE	1	1						1
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	0	0						2
	BORON	19	19						66
	SILICON	5	5						7
	SODIUM	11	11						8
	CALCIUM	1720	1720						2335
	MAGNESIUM	637	637						109
	PHOSPHORUS	1022	1022						830
	ZINC	1104	1104						975
	BARIUM	0	0						0

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	66.6	65-78					
	cSt Viscosity @ 100°C	12.05	11.6-15.3					
	Flashpoint in °F	380	>375					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.3	<0.6					
	TBN	3.8						
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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