



OIL REPORT

LAB NUMBER: K45478

UNIT ID: E53 M54

REPORT DATE: 8/16/2018

CLIENT ID: 129762

CODE: 20/32

PAYMENT: Prepaid

UNIT	MAKE/MODEL:	BMW 3.0L (M54B30) I-6	OIL TYPE & GRADE:	Gasoline Engine Oil
	FUEL TYPE:	Gasoline (Unleaded)	OIL USE INTERVAL:	Miles
	ADDITIONAL INFO:	2004 X5		

CLIENT	BRAD	PHONE:	
		FAX:	
	HUNTINGTON, NY 11743	ALT PHONE:	
		EMAIL:	

COMMENTS	BRAD: Thanks for the notes. It looks like you found a nice X5. Universal averages show typical wear levels for this type of engine after about 6,400 miles on the oil. We don't know how long this oil was in use, but the metals match up with averages quite nicely, which is a good indication that all is well mechanically. At least if there are any problems they aren't obvious in these results. The viscosity is in the 5W/40 range, but the brand is hard to determine based on the additives. No fuel or coolant is present and air and oil filters kept silicon and insolubles low. Nice first report.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	125,567							
	Sample Date	8/4/2018							
	Make Up Oil Added								
	ALUMINUM	3	3						4
	CHROMIUM	0	0						0
	IRON	15	15						15
	COPPER	5	5						9
	LEAD	3	3						4
	TIN	0	0						1
	MOLYBDENUM	84	84						91
	NICKEL	0	0						1
	MANGANESE	0	0						1
	SILVER	0	0						0
	TITANIUM	0	0						2
	POTASSIUM	1	1						3
	BORON	234	234						60
	SILICON	4	4						5
	SODIUM	5	5						13
	CALCIUM	3225	3225						2333
	MAGNESIUM	22	22						166
	PHOSPHORUS	998	998						835
	ZINC	1073	1073						989
	BARIUM	0	0						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	67.8					
	cSt Viscosity @ 100°C	12.37					
	Flashpoint in °F	400	>375				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.1	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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