



# OIL REPORT

LAB NUMBER: H89041  
 REPORT DATE: 11/3/2016  
 CODE: 44/37

UNIT ID: 08 M5  
 CLIENT ID: 25819  
 PAYMENT: CC: Visa (Bulk)

<b>UNIT</b>	MAKE/MODEL: BMW 5.0L (S85B50) V-10	OIL TYPE & GRADE: Mobil 1 0W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,850 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	Johnny Appleseed	PHONE: 555-1212
		FAX:
		ALT PHONE:
		EMAIL: bmwowner@bmw.com

**COMMENTS**  
 DAVE: Thanks for the detailed notes. We think you're doing just fine on both the oil and rod bearing fronts. Lead has held nice and steady since last time, so we're not seeing any indication of poor bearing wear. Other metals also came in at good levels. Aluminum and iron did take a bit of a hop up, so that's something to watch. They're still okay next to averages though, so no need to panic. The oil's physical properties were in good order. Its viscosity read in the 0W/40 range, and no harmful contaminants were found. Air/oil filtration gets a thumbs-up. All around, a nice report.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	4,850	<b>UNIT / LOCATION AVERAGES</b>	5,300	5,000	5,000	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	42,150		37,300	32,000	27,359	
	Sample Date	10/12/2016		10/5/2015	12/15/2014	4/3/2014	
	Make Up Oil Added	2 qts		0 qts	1 qt		
ALUMINUM	4	3	2	2	4	4	
CHROMIUM	0	0	0	0	0	0	
IRON	10	7	4	4	6	8	
COPPER	2	2	1	1	2	2	
LEAD	7	7	7	3	6	9	
TIN	2	1	0	0	1	1	
MOLYBDENUM	68	39	10	29	122	94	
NICKEL	0	0	0	0	0	1	
MANGANESE	0	1	1	1	1	3	
SILVER	0	0	0	0	0	0	
TITANIUM	1	2	2	6	28	15	
POTASSIUM	4	7	9	0	3	2	
BORON	133	95	56	126	38	48	
SILICON	3	4	4	3	4	4	
SODIUM	5	5	4	3	4	9	
CALCIUM	2919	2759	2599	2280	2538	2465	
MAGNESIUM	27	42	56	57	46	130	
PHOSPHORUS	891	886	881	774	797	840	
ZINC	1058	1052	1046	921	916	995	
BARIUM	0	0	0	0	0	0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	69.6	63-76	92.7	90.1	89.6
	cSt Viscosity @ 100°C	12.84	11.1-14.8	18.63	18.01	17.88
	Flashpoint in °F	385	>375	<b>365</b>	400	430
	Fuel %	<0.5	<2.0	TR	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0
	Insolubles %	TR	<0.6	TR	0.2	0.2
	TBN					
	TAN					
	ISO Code					

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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