



OIL REPORT

LAB NUMBER: K82692

UNIT ID: 08 M3

REPORT DATE: 1/4/2019

CLIENT ID: 115087

CODE: 63/32

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: BMW 4.0L (S65B40) V-8 2008-2011	OIL TYPE & GRADE: Liqui Moly 10W/60
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,013 Miles
	ADDITIONAL INFO: Motor replaced @ 61,000mi by BMW due to metal in oil filter	

CLIENT	LUKE MCCULLOUGH	PHONE: (570) 881-6759
	3825 BISHOPS WALK	FAX:
	CUMMING, GA 30041	ALT PHONE:
		EMAIL: mcculloughl2@gmail.com

COMMENTS	LUKE: Thanks for the note. 6,000 miles on the oil should be just fine going forward. In fact, you may be able to get even more miles than that out of the oil considering how nicely your S65 is wearing. The high lead in the first sample didn't stick around and 2 ppm is impressively low. The other metals are in great shape as well and show no obvious mechanical problem, bearing or otherwise, developing. The viscosity is fine for 10W/60 and there's no fuel or coolant present. The air and oil filters kept silicon and insolubles low. Go for 6,000-8,000 miles on the next oil.
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	MI/HR on Oil	4,013	UNIT / LOCATION AVERAGES	6,732	9,173				UNIVERSAL AVERAGES
	MI/HR on Unit	101,672		97,659	90,927				
	Sample Date	12/20/2018		7/4/2018	9/19/2017				
	Make Up Oil Added	1 qt		1 qt	1 qt				
ELEMENTS IN PARTS PER MILLION	ALUMINUM	3	3	3	4				4
	CHROMIUM	0	0	0	0				0
	IRON	4	6	7	6				7
	COPPER	1	2	2	2				2
	LEAD	2	8	6	17				8
	TIN	0	0	0	0				1
	MOLYBDENUM	82	92	46	147				112
	NICKEL	0	0	0	0				0
	MANGANESE	0	0	0	0				1
	SILVER	0	0	0	0				0
	TITANIUM	3	17	10	38				16
	POTASSIUM	1	1	1	1				2
	BORON	30	35	45	31				51
	SILICON	4	3	2	4				4
	SODIUM	3	4	5	4				7
	CALCIUM	2716	2764	2580	2995				2534
	MAGNESIUM	9	10	13	9				78
	PHOSPHORUS	874	868	900	829				845
	ZINC	996	1009	1001	1031				980
	BARIUM	0	0	0	0				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	92.2	80-100	90.0	95.2			
	cSt Viscosity @ 100°C	18.52	15.5-20.6	17.99	19.23			
	Flashpoint in °F	405	>385	390	415			
	Fuel %	<0.5	<2.0	<0.5	<0.5			
	Antifreeze %	0.0	0.0	0.0	0.0			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	TR	<0.6	0.0	0.1			
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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