



OIL REPORT

LAB NUMBER: J99696

UNIT ID: 2008 SSII M3

REPORT DATE: 2/26/2018

CLIENT ID:

CODE: 20/32

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: BMW 4.0L (S65B40) V-8 2008-2011
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Castrol 10W/60
OIL USE INTERVAL: 8,160 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

GABRIEL: Everything looks good in this sample. Bearing wear (lead) is at an acceptable level for the interval, and other wear metals are at respectable levels too. No contamination from fuel dilution, water, or coolant contamination was found and the viscosity was in spec. Insolubles read low showing no issues with combustion or oil filtration. It looks like you've found the perfect interval for your engine -- as long as you can go without adding a second quart of oil, while still keeping wear at good levels. We like this interval, and it seems like you do too. Nice report!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	8,160	UNIT / LOCATION AVERAGES	10,300	4,700	6,341	UNIVERSAL AVERAGES
	MI/HR on Unit	63,160		55,000	44,700	40,050	
	Sample Date	2/8/2018		6/17/2017	8/14/2016	4/22/2016	
	Make Up Oil Added	1 qt		2 qts	1 qt	1 qt	
	ALUMINUM	6	5	7	4	4	4
	CHROMIUM	0	0	0	0	0	0
	IRON	8	7	7	6	8	7
	COPPER	3	2	3	2	1	2
	LEAD	10	15	20	9	19	8
	TIN	0	0	0	0	0	1
	MOLYBDENUM	195	176	166	178	164	114
	NICKEL	0	0	0	0	1	0
	MANGANESE	1	1	0	0	1	1
	SILVER	0	0	0	0	0	0
	TITANIUM	45	40	38	39	38	17
	POTASSIUM	0	1	1	1	0	2
	BORON	25	23	19	27	21	52
	SILICON	9	5	4	3	4	4
	SODIUM	4	5	6	3	6	7
	CALCIUM	2724	2707	2548	2830	2724	2513
	MAGNESIUM	17	16	15	13	19	91
	PHOSPHORUS	848	778	688	802	773	831
	ZINC	969	908	836	961	865	977
	BARIUM	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	89.3	80-100	88.1	97.8	91.2
	cSt Viscosity @ 100°C	17.80	15.5-20.6	17.52	19.85	18.26
	Flashpoint in °F	395	>370	420	410	375
	Fuel %	<0.5	<2.0	<0.5	<0.5	TR
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0	0.0
	Insolubles %	TR	<0.6	TR	TR	TR
	TBN			3.3	4.6	
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com