

OIL REPORT

LAB NUMBER: UNIT ID: 3/1/2019 **REPORT DATE: CLIENT ID: CODE**: 20/32 **PAYMENT:**

BMW 4.0L (S65B40) V-8 EQUIP. MAKE/MODEL: OIL TYPE & GRADE: 15W/50 **FUEL TYPE**: Gasoline (Unleaded) OIL USE INTERVAL: 2,500 Miles

ADDITIONAL INFO: New Rod Bearings @47K miles, supercharged @61K miles

PHONE: FAX:

ALT PHONE: EMAIL:

We're betting this supercharged M3 sees some pretty hard use, but, if that's the case, it's not apparent in the used oil analysis. Wear metals are in the single digits across the board Aluminum and iron are a tad lower than last time, partly due to the shorter run and that's just fine. Short runs certainly won't hurt anything. There's no fuel or coolant to worry about the viscosity is fine for 15W/50. Silicon from sealers used to install the supercharger have washed out and the air filter is working well. You could go back to 4,500 miles on the oil if you want.

	MI/HR on Oil	2,500		4,500	3,200	6,500	4,900	
	MI/HR on Unit	74,302	UNIT / LOCATION AVERAGES	72,147	68,400	65,291	50,750	UNIVERSAL
	Sample Date	2/21/2019		9/7/2018	12/28/2017	5/8/2017	4/28/2015	AVERAGES
	Make Up Oil Added	0 qts		0 qts	0.5 qts		0 qts	
LION	ALUMINUM	3	4	6	5	4	3	4
	CHROMIUM	0	0	0	0	0	0	0
MILLI	IRON	3	4	4	5	6	4	7
	COPPER	2	2	2	2	2	1	2
띪	LEAD	0	1	1	1	1	2	8
Д	TIN	0	0	0	1	1	0	1
3	MOLYBDENUM	116	117	111	124	112	120	111
PAR	NICKEL	0	0	0	0	0	0	0
	MANGANESE	1	3	1	3	7	1	1
Z	SILVER	0	0	0	0	0	0	0
S	TITANIUM	0	0	0	0	0	2	15
Ë	POTASSIUM	0	1	2	1	0	2	2
Ú	BORON	40	35	33	40	26	37	51
EME	SILICON	7	9	6	9	15	8	4
긂	SODIUM	4	4	4	4	5	3	7
	CALCIUM	3788	3528	3285	3462	3438	3668	2541
	MAGNESIUM	15	17	13	16	15	25	76
	PHOSPHORUS	1211	1142	1098	1233	1004	1165	846
	ZINC	1338	1268	1176	1368	1159	1301	981
	BARIUM	0	0	0	0	0	0	0

Values

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70-86

PROPERTIES	SUS Viscosity @ 210°F	83.2	70-86	83.6	84.2	83.0	82.2	
	cSt Viscosity @ 100°C	16.33	13.0-17.3	16.42	16.57	16.28	16.08	
	Flashpoint in °F	410	>390	365	410	430	375	
	Fuel %	<0.5	<2.0	1.3	<0.5	<0.5	1.5	
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	
	Insolubles %	TR	<0.6	0.2	0.1	TR	0.1	
	TBN							
	TAN							
	ISO Code							

^{*} THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE