

OIL REPORT **LAB NUMBER:** J76994 **REPORT DATE:** 11/15/2017

UNIT ID: 07 Z4M
CLIENT ID: 68352
PAYMENT: CC: Visa

LIN

MAKE/MODEL: BMW 3.2L (S54B32) I-6

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

4 ROLLING RIDGE CT

MOUNT KISCO, NY 10549

EVAN LERNER

OIL TYPE & GRADE: Castrol TWS 10W/60

OIL USE INTERVAL: 7,500 Miles

PHONE: (914) 246-0120

CODE: 20/32

FAX:

ALT PHONE:

EMAIL: elerner61@hotmail.com

SMMENTS

CLIENT

EVAN: Most wear metals are close to how the engine wore in years past, but lead does stand out at 34 ppm. If all of this lead is from the engine, it shows a large increase in rod/main bearing wear, and the rod bearings are always a point of concern for the S54. Lead has harmless sources too, such as fuel from the race track and some types of octane booster additives. One high lead reading isn't enough for us to call certain trouble, but it bears close monitoring. Keep an ear out for unusual noises and check back in 3,000 miles. We'll keep our fingers crossed for a drop in lead.

	MI/HR on Oil	7,500	IINIIT /	7,000	7,500		
	MI/HR on Unit	68,000		47,270	39,000		UNIVERSAL
	Sample Date	11/10/2017		10/27/2014	10/25/2013		AVERAGES
	Make Up Oil Added	0 qts		0 qts	0 qts		
N	ALUMINUM	4	4	4	4		4
0	CHROMIUM	0	0	1	0		0
MIL	IRON	12	13	13	13		10
	COPPER	3	3	3	3		8
R	LEAD	34	16	8	5		5
S IN PARTS PI	TIN	0	0	1	0		1
	MOLYBDENUM	152	94	130	1		80
	NICKEL	0	1	1	1		1
	MANGANESE	1	1	1	1		1
	SILVER	0	0	0	0		0
	TITANIUM	35	23	34	0		11
ΙĔ	POTASSIUM	0	2	3	4		2
Ш	BORON	32	48	37	76		65
E	SILICON	8	5	3	4		5
	SODIUM	9	11	16	7		7
	CALCIUM	2556	2122	2374	1436		2146
	MAGNESIUM	12	258	176	585		253
	PHOSPHORUS	786	781	739	818		832
	ZINC	935	939	916	966		989
	BARIUM	0	0	0	0		0

Values

Should Be*

SUS Viscosity @ 210°F	82.2	80-100	84.1	86.4		
cSt Viscosity @ 100°C	16.07	15.5-20.6	16.55	17.11		
Flashpoint in °F	395	>375	365	355		
Fuel %	<0.5	<2.0	0.5	1.0		
Antifreeze %	0.0	0.0	0.0	0.0		
Water %	0.0	0.0	0.0	0.0		
Insolubles %	TR	<0.6	0.1	TR		
TBN						
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