OIL REPORT

LAB NUMBER: N68634 **UNIT ID:** 04 M3
REPORT DATE: 7/29/2021 **CLIENT ID:** 184769
CODE: 20/68 **PAYMENT:** CC Online

UNIT

MAKE/MODEL: BMW 3.2L (S54B32) I-6
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:
OIL TYPE & GRADE: Liqui Moly 10W/60
OIL USE INTERVAL: 5,000 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

IGNAS: Thanks for the notes. You've never replaced the rod bearings in this S54 engine, and based on these results, it looks like you won't have to any time soon. For reference, universal averages show typical wear in these engines after ~4,400 miles of oil use. After 5,000 miles, wear metals (mostly aluminum through tin) in your sample compare very well to averages, so we don't have any concerns about how internal parts are wearing. The flashpoint found a bit of fuel at 0.8%, but that amount isn't concerning--it'll probably clear up in the next report. Nicely done.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	5,000							
MI/HR on Unit	140,000							
Sample Date	7/25/2021							
Make Up Oil Added	0 qts							
ALUMINUM	3	3						4
CHROMIUM	0	0						0
IRON	6	6						9
COPPER	8	8						8
LEAD	2	2						6
TIN	0	0						0
MOLYBDENUM	104	104						100
NICKEL	0	0						0
MANGANESE	1	1						1
SILVER	0	0						0
TITANIUM	2	2						11
POTASSIUM	1	1						1
BORON	26	26						58
SILICON	5	5						5
SODIUM	3	3						7
CALCIUM	3362	3362						2396
MAGNESIUM	20	20						146
PHOSPHORUS	1004	1004						855
ZINC	1222	1222						996
BARIUM	0	0						0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	83.8	80-110					
cSt Viscosity @ 100°C	16.48	15.5-22.9					
Flashpoint in °F	**370**	>385					
Fuel %	0.8	<2.0					
Antifreeze %	0.0	0.0					
Water %	0.0	0.0					
Insolubles %	0.2	<0.6					
TBN							
TAN							
ISO Code							

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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