OIL REPORT

LAB NUMBER: M08502
REPORT DATE: 3/9/2020
CODE: 20/698

UNIT ID: 03 M3
CLIENT ID: [redacted]
PAYMENT: [redacted]

UNIT

MAKE/MODEL: BMW 3.2L (S54B32) I-6
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: BMW 10W/60
OIL USE INTERVAL: 4,441 Miles

CLIENT

[redacted]

COMMENTS

TIM: Your M3 is three for three on good reports! This is the first one where we didn't have to highlight anything, so it's arguably the best one yet; it's not like the small amounts of fuel in the previous samples were a real concern, but it's nice to be able to look down the page and see nothing marked in bold. Internal wear looks as good as ever, with metals on the low side of averages and comparable to past results. Lead (from the bearings) is all the way down to zero, and that's an especially nice find. The 5.3 TBN shows active additive left over. Nice BMW!

ELEMENTS IN PARTS PER MILLION

MI/HR on Oil	4,441	UNIT / LOCATION AVERAGES	5,075	3,466				UNIVERSAL AVERAGES
MI/HR on Unit	95,456		91,015	83,466				
Sample Date	1/11/2020		9/19/2019	6/23/2019				
Make Up Oil Added	0 qts		1 qt	0 qts				
ALUMINUM	3	4	4	4				4
CHROMIUM	0	0	0	0				0
IRON	6	5	5	4				9
COPPER	5	5	5	4				8
LEAD	0	1	2	2				6
TIN	0	0	0	0				0
MOLYBDENUM	122	168	208	175				93
NICKEL	0	0	0	0				0
MANGANESE	0	0	0	0				1
SILVER	0	0	0	0				0
TITANIUM	11	30	40	40				12
POTASSIUM	2	1	1	0				1
BORON	45	45	36	54				59
SILICON	3	4	5	4				5
SODIUM	4	5	5	5				7
CALCIUM	2282	2527	2559	2739				2312
MAGNESIUM	18	20	11	32				172
PHOSPHORUS	727	765	740	828				846
ZINC	853	883	856	939				990
BARIUM	0	0	0	0				0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	90.0	80-100	85.4	91.0			
cSt Viscosity @ 100°C	17.98	15.5-20.6	16.85	18.23			
Flashpoint in °F	380	>375	**365**	**380**			
Fuel %	<0.5	<2.0	1.0	TR			
Antifreeze %	0.0	0.0	0.0	0.0			
Water %	0.0	0.0	0.0	0.0			
Insolubles %	0.3	<0.6	0.2	TR			
TBN	5.3	>1.0		7.6			
TAN							
ISO Code							

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

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