



OIL REPORT

LAB NUMBER: Q04286

UNIT ID: 11 M3

REPORT DATE: 8/9/2022

CLIENT ID: 173978

CODE: 20/68

PAYMENT: CC:

UNIT

MAKE/MODEL: BMW 4.0L (S65B40) V-8 2011-2013
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: Supercharged

OIL TYPE & GRADE: Red Line 5W/50
OIL USE INTERVAL: 7,800 Miles

CLIENT

KEVIN
DR

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

KEVIN: Thanks for letting us know you sold the 2012 M3. Your 2011 M3 still seems to be doing great mechanically, as evidenced by the low/stable wear readings in this report. With that in mind, the silicon in this sample is probably from a harmless source like oil additive and/or sealer or lube, rather than dirt (which is abrasive and tends to cause extra wear), but check the air filter/intake for issues if you have your doubts. No significant coolant, water, or fuel turned up in this 5W/50, and the oil filtration system kept insolubles well below the 0.6% limit. Try 10,000 miles next.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,800	UNIT / LOCATION AVERAGES	7,500					UNIVERSAL AVERAGES
	MI/HR on Unit	107,300		99,500					
	Sample Date	7/24/2022		3/27/2022					
	Make Up Oil Added	0.50 qts		0 qts					
	ALUMINUM	2	3	3					4
	CHROMIUM	0	0	0					0
	IRON	5	6	4					7
	COPPER	2	2	3					3
	LEAD	0	0	0					0
	TIN	1	1	0					1
	MOLYBDENUM	313	216	84					114
	NICKEL	0	0	0					0
	MANGANESE	0	5	1					1
	SILVER	0	0	0					0
	TITANIUM	0	16	1					13
	POTASSIUM	0	1	1					1
	BORON	63	48	25					48
	SILICON	57	16	4					4
	SODIUM	7	9	3					6
	CALCIUM	2432	2880	3469					2615
	MAGNESIUM	307	142	21					46
	PHOSPHORUS	881	927	954					852
	ZINC	1017	1074	1120					983
	BARIUM	0	0	0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	84.0	72-92	90.7				
	cSt Viscosity @ 100°C	16.52	13.5-18.7	18.15				
	Flashpoint in °F	390	>385	410				
	Fuel %	<0.5	<2.0	<0.5				
	Antifreeze %	0.0	0.0	0.0				
	Water %	0.0	<0.1	0.0				
	Insolubles %	TR	<0.6	0.1				
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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