



OIL REPORT

LAB NUMBER: R16911

UNIT ID: 12 335I

REPORT DATE: 6/5/2023

CLIENT ID: 205580

CODE: 63/88

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: BMW 3.0L (N55B30) I-6 Turbo

OIL TYPE & GRADE: Motul 300V Competition 15W/50

FUEL TYPE: Gasoline (Unleaded)

OIL USE INTERVAL: 900 KM

ADDITIONAL INFO: Rebuilt with new rod bearings, rods, and pistons

CLIENT

SIMON UEERBACHER

PHONE: (393) 337-292353

MICHAEL PACHER 10A

FAX:

NAZ-SCIAVES, 39040

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ITALY

EMAIL: ueerbacher.simon@gmail.com

COMMENTS

SIMON: Thanks for noting the particles you found - some magnetic (ferrous - iron), some not. Wear metals are lower on a microscopic level, so we don't suspect any issues based on this data. Lead was high last time and it dropped to just 2 ppm. The engine has aluminum bearings (like you noted) so lead isn't a concern. Silicon could show dirt or a harmless sealer/lube/gasket. Check the air filter/intake if you didn't use any silicone products or open the engine for service/inspection. The viscosity is fine and a trace of fuel is harmless. Watch for oil filter metal at the next service.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	900	UNIT / LOCATION AVERAGES	3,800	400				UNIVERSAL AVERAGES
	MI/HR on Unit	8,000		6,000	2,700				
	Sample Date	5/28/2023		11/20/2022	7/10/2022				
	Make Up Oil Added	0 qts		0 qts					
	ALUMINUM	1		2	3	2			
	CHROMIUM	0		0	1	0			
	IRON	8		10	17	6			
	COPPER	1		2	3	1			
	LEAD	2		6	15	0			
	TIN	1	1	2	1				1
	MOLYBDENUM	655	602	575	575				68
	NICKEL	0	0	0	0				0
	MANGANESE	35	72	146	36				2
	SILVER	0	0	0	0				0
	TITANIUM	0	0	0	0				5
	POTASSIUM	1	3	7	1				2
	BORON	18	21	21	23				74
	SILICON	30	17	12	10				5
	SODIUM	4	4	3	4				6
	CALCIUM	1285	1384	1468	1400				2328
	MAGNESIUM	696	582	523	527				180
	PHOSPHORUS	981	952	952	924				801
	ZINC	1070	1054	1052	1040				927
	BARIUM	0	0	0	0				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	79.0	76-95	74.8	80.5			
	cSt Viscosity @ 100°C	15.27	14.5-19.4	14.21	15.65			
	Flashpoint in °F	390	>390	315	395			
	Fuel %	TR	<2.0	3.8	<0.5			
	Antifreeze %	0.0	0.0	0.0	0.0			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.1	<0.6	0.2	0.1			
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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