



OIL REPORT

LAB NUMBER: N01204

UNIT ID: 74 BMW 3.0CS

REPORT DATE: 1/14/2021

CLIENT ID: 174058

CODE: 20/698

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: BMW 3.0L 6-Cylinder
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Valvoline VR1 20W/50
OIL USE INTERVAL: 4,000 Miles

CLIENT

ERIC VAN NICE
1343 CAUDOR STREET
ENCINITAS, CA 92024

PHONE: (949) 436-2479
FAX:
ALT PHONE:
EMAIL: evannice@cox.net

COMMENTS

ERIC: Chrome, iron, copper, and lead are high compared to our averages for this kind of 3.0L, based on ~6,000 miles of use. Chrome is from rings, iron shows wear from steel parts (cylinders, shafts), and copper is from brass/bronze parts like bushings. Lead can show bearing wear, but it could also be from past use of leaded fuel. Note silicon. If the engine was worked on recently, it can show sealers, which may help explain metal as wear-in, but if not, check air filtration as it can be dirt. The TBN is good, but we suggest checking back to monitor metals in 2,000 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,000	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit									
	Sample Date	12/29/2020								
	Make Up Oil Added	1 qt								
	ALUMINUM	8								
	CHROMIUM	6								
	IRON	48								
	COPPER	21								
	LEAD	32								
	TIN	2								
	MOLYBDENUM	22								
	NICKEL	0								
	MANGANESE	2								
	SILVER	0								
	TITANIUM	4								
	POTASSIUM	0								
	BORON	30								
	SILICON	10								
	SODIUM	191								
	CALCIUM	2019								
	MAGNESIUM	77								
	PHOSPHORUS	1069								
	ZINC	1142								
	BARIUM	1								

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	74.0	77-94					
	cSt Viscosity @ 100°C	14.00	14.8-19.2					
	Flashpoint in °F	390	>385					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	0.0					
	Insolubles %	0.4	<0.6					
	TBN	3.6	>1.0					
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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