



OIL REPORT

LAB NUMBER: G34621

UNIT ID: RED ZHP

REPORT DATE: 9/22/2014

CLIENT ID: 57248

CODE: 20/75

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: BMW 2.5L (M54) Inline 6-Cylinder
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: 2004 330i

OIL TYPE & GRADE: Gasoline Engine Oil
OIL USE INTERVAL: 7,500 Miles

CLIENT

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COMMENTS

PATRICK: This is a great looking BWM at 182,985 miles. Universal averages show typical wear levels for this type of engine after about 6,400 miles on the oil. This oil saw 7,500 miles and wear metals compare perfectly with averages. A lot of metals are actually lower than universal averages and you can't complain about that. The viscosity is in the 5W/40 range and that worked just fine. No fuel or coolant contamination is present and low insolubles and silicon show fine oil and air filtration. You can go longer on the oil if you want, but 7,500 miles is also a good interval.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,500	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit	182,985								
	Sample Date	08/30/14								
	Make Up Oil Added	0.75 qt								
	ALUMINUM	2		3						
	CHROMIUM	0		0						
	IRON	9		15						
	COPPER	2		6						
	LEAD	7		7						
	TIN	0		0						
	MOLYBDENUM	65		67						
	NICKEL	0		0						
	MANGANESE	1		1						
	SILVER	0		0						
	TITANIUM	0		0						
	POTASSIUM	6		4						
	BORON	29		71						
	SILICON	4		5						
	SODIUM	15		10						
	CALCIUM	1112		2069						
	MAGNESIUM	1110		620						2161
	PHOSPHORUS	1037		970						213
	ZINC	1260		1154						814
	BARIUM	0		0						968
										0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	73.4					
	cSt Viscosity @ 100°C	13.85					
	Flashpoint in °F	405	>365				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.2	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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