



OIL REPORT

LAB NUMBER: F78843

UNIT ID: 11 M3

REPORT DATE: 10/15/2013

CLIENT ID: 67347

CODE: 63/75

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: BMW 4.0L (S65) V-8
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Castrol TWS 10W/60
OIL USE INTERVAL: 8,000 Miles

CLIENT

RUSS VASTANO
333 JUNIPER BEND CIRCLE
GREENVILLE, SC 29615

PHONE:
FAX:
ALT PHONE:
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COMMENTS

RUSS: The only metal that's cautionary in this first report from the 4.0L in your BMW is lead. Lead generally shows bearing wear, and we're not calling it a problem after only one sample, but it's certainly worth monitoring. The other wear metals look great, so maybe there's a reasonable explanation for it, like racing gas or an additive. We'll know more next time when we can see if it's going up or down. Universal averages show typical wear for the S65 engine after 5,700 miles on the oil. Low insolubles and silicon show good oil and air filtration. Check back in 7,500 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	8,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	55,897							
	Sample Date	09/29/13							
	Make Up Oil Added	1 qt							
	ALUMINUM	6		6					
	CHROMIUM	0		0					
	IRON	12		12					
	COPPER	5		5					
	LEAD	28		28					
	TIN	1		1					
	MOLYBDENUM	108		108					
	NICKEL	0		0					
	MANGANESE	1		1					
	SILVER	0		0					
	TITANIUM	23		23					
	POTASSIUM	1		1					
	BORON	33		33					
	SILICON	4		4					
	SODIUM	5		5					
	CALCIUM	2281		2281					
	MAGNESIUM	336		336					458
	PHOSPHORUS	852		852					860
	ZINC	994		994					1019
	BARIUM	0		0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	87.3	85-110					
	cSt Viscosity @ 100°C	17.33	16.8-22.9					
	Flashpoint in °F	400	>375					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	0.0					
	Insolubles %	0.3	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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