

OIL REPORT

LAB NUMBER: E65674
REPORT DATE: 8/3/2011

UNIT ID: BMW S54
CLIENT ID: 30388
PAYMENT: CC: AmEx

LIN

MAKE/MODEL: BMW 3.2L (S-54) Inline 6 Cylinder OIL TYPE & GRADE: Castrol TWS 10W/60

FUEL TYPE: Gasoline (Unleaded) OIL USE INTERVAL: 3,790 Miles

ADDITIONAL INFO: 2007 - Runs this car at High-Performance Driving Schools At Times.

JAMES S. MILLET 1436 NW 202ND LN

SHORELINE, WA 98177

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OMMENTS

JAMES: Wow, this engine's in great shape. It's been producing steady wear trends for a while now, and for the most part, that hasn't changed here. There is a little extra lead in this sample, though we suspect the lead is from a particle streak that'll take care of itself next time. If it doesn't, we'll let you know. The only potentially problematic finding in this report was fuel. At 2.5%, fuel is borderline troublesome, so watch for a rising oil level to show fuel contamination in your oil. Aside from fuel, no other contamination was found. Check back for another look.

	MI/HR on Oil	3,790		4,006	4,533	4,147	4,346	3,925	
	MI/HR on Unit	33,908	UNIT / LOCATION AVERAGES	30,118	26,112	21,579	17,432	13,086	AVERAGES
	Sample Date	07/26/11		10/27/10	04/11/10	09/22/09	05/27/09	10/28/08	
	Make Up Oil Added	0 qts		0 qts					
N	ALUMINUM	5	5	5	4	4	4	4	5
PIO	CHROMIUM	0	0	0	0	0	0	0	0
	IRON	8	10	9	8	7	8	10	10
	COPPER	5	5	5	4	4	4	4	8
ER	LEAD	6	2	0	3	2	2	1	4
Д	TIN	0	0	0	0	0	0	0	1
S	MOLYBDENUM	4	3	3	1	3	3	3	18
R	NICKEL	0	1	0	1	1	0	1	1
PΑ	MANGANESE	1	1	1	1	1	1	1	2
Z	SILVER	0	0	0	0	0	0	0	0
S	TITANIUM	0	0	0	0	0	0	0	0
Ĕ	POTASSIUM	3	2	2	2	2	1	1	2
	BORON	105	109	104	112	94	102	119	90
EM	SILICON	4	4	4	4	4	4	4	5
н	SODIUM	26	18	27	19	28	25	7	5
	CALCIUM	1532	1526	1470	1705	1553	1461	1503	1662
	MAGNESIUM	600	604	559	637	592	564	610	519
	PHOSPHORUS	844	850	818	922	848	784	852	826
	ZINC	981	1040	998	1247	1017	1012	1020	999
	BARIUM	0	0	0	0	0	0	0	0

Values

Should Be*

ries	SUS Viscosity @ 210°F	90.0	85-110	86.2	87.8	90.1	90.0	90.2
	cSt Viscosity @ 100°C	17.99	16.8-22.9	17.06	17.45	18.01	17.97	18.04
	Flashpoint in °F	330	>375	370	400	425	380	385
	Fuel %	2.3	<2.0	TR	<0.5	<0.5	<0.5	<0.5
2	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROPE	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.0	<0.6	TR	TR	0.1	0.1	0.2
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE