



# OIL REPORT

LAB NUMBER: D90340  
 REPORT DATE: 10/6/2009  
 CODE: 20/286

UNIT ID: M3 E92  
 CLIENT ID: 37829  
 PAYMENT: CC: Visa

<b>UNIT</b>	MAKE/MODEL: BMW 4.0L (S65) V-8	OIL TYPE & GRADE: 10W/60
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 7,181 Miles
	ADDITIONAL INFO: 2008	

<b>CLIENT</b>	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

**COMMENTS** MTROIS: Your engine is seeing track days so we suspect possibly you may be using some leaded gas. If this is correct the lead is meaningless other than being a matter of interest. If there is no possibility of leaded fuel the lead may show abnormal bearing wear, the lead being from bearing babbitt. It is possible lead is from a particle streak through the bearings, which is a temporary situation. Shorten up oil use intervals to 4,000 miles. Fuel was the only contaminant and at a trace level, it isn't not hurting anything. The TBN read 3.4, still active additive remaining.

	MI/HR on Oil	7,181	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	16,094						
	Sample Date	09/26/09						
	Make Up Oil Added	0 qts						
<b>ELEMENTS IN PARTS PER MILLION</b>	ALUMINUM	5	5					3
	CHROMIUM	0	0					0
	IRON	12	12					7
	COPPER	6	6					3
	LEAD	79	79					6
	TIN	2	2					1
	MOLYBDENUM	0	0					72
	NICKEL	0	0					1
	MANGANESE	1	1					0
	SILVER	0	0					0
	TITANIUM	0	0					0
	POTASSIUM	2	2					1
	BORON	69	69					59
	SILICON	5	5					6
	SODIUM	4	4					5
	CALCIUM	1447	1447					2380
	MAGNESIUM	599	599					207
PHOSPHORUS	770	770					844	
ZINC	908	908					990	
BARIUM	0	0					0	

Values Should Be\*

	SUS Viscosity @ 210°F	86.8	80-95				
	cSt Viscosity @ 100°C	17.21	15.5-19.4				
<b>PROPERTIES</b>	Flashpoint in °F	395	>395				
	Fuel %	TR	<2.0				
	Antifreeze %	0.0	0				
	Water %	0.0	0.0				
	Insolubles %	TR	<0.6				
	TBN	3.4					
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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