



OIL REPORT

LAB NUMBER: F04778

UNIT ID: M3 E92

REPORT DATE: 6/1/2012

CLIENT ID: 37829

CODE: 20/501

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: BMW 4.0L (S65) V-8	OIL TYPE & GRADE: 10W/60
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 7,258 Miles
	ADDITIONAL INFO: 2008	

CLIENT	MTROIS	PHONE:
		FAX:
		ALT PHONE:
		EMAIL: bmw.mtrois@gmail.com

COMMENTS	MTROIS: Thanks for the note about the six track days. Lead is still a bit high to be considered normal, but we'll certainly take the improvement--especially considering where it started out back in 2009. The other metals are nice and steady showing mechanical parts that are behaving themselves. No harmful fuel or coolant was present and low insolubles and silicon show good oil and air filtration. The TBN was 2.9 showing plenty of active additive left. Hopefully lead drops again next time.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,258	UNIT / LOCATION AVERAGES	7,627	7,181				UNIVERSAL AVERAGES
	MI/HR on Unit	36,961		23,769	16,094				
	Sample Date	10/15/11		09/03/10	09/26/09				
	Make Up Oil Added	600 ml		1 qt	0 qts				
	ALUMINUM	6		6	5				
	CHROMIUM	0		0	0				
	IRON	10		11	12				
	COPPER	2		4	6				
	LEAD	21		35	79				
	TIN	2		3	2				
	MOLYBDENUM	2		2	0				
	NICKEL	0		0	0				
	MANGANESE	1		1	1				
	SILVER	0		0	0				
	TITANIUM	0		0	0				
	POTASSIUM	3		2	2				
	BORON	76		75	69				
	SILICON	4		5	5				
	SODIUM	4		4	4				
	CALCIUM	1590		1529	1447				
	MAGNESIUM	631		551	599				
	PHOSPHORUS	804		765	770				
	ZINC	962		946	908				
	BARIUM	0		0	0				

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	92.8	80-95	91.5	86.8			
	cSt Viscosity @ 100°C	18.65	15.5-19.4	18.34	17.21			
	Flashpoint in °F	450	>370	440	395			
	Fuel %	<0.5	<2.0	<0.5	TR			
	Antifreeze %	0.0	0.0	0.0	0.0			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.2	<0.6	0.1	TR			
	TBN	2.9	>1.0	3.3	3.4			
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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