



OIL REPORT

LAB NUMBER: D38055
REPORT DATE: 4/29/2008
CODE: 20/286

UNIT ID: MROADSTER
CLIENT ID: 13187
PAYMENT: CC: Visa

UNIT	MAKE/MODEL: BMW 3.2L (S-54) Inline 6 Cylinder	OIL TYPE & GRADE: Castrol TWS 10W/60
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,704 Miles
	ADDITIONAL INFO: 2002	

CLIENT	DANIEL W MCROBB	PHONE: (734) 332-0344
	5917 LOCH LODEN DR	FAX:
	DEXTER, MI 48130	ALT PHONE:
		EMAIL: dwm@mcplex.net

COMMENTS	DANIEL: Some time has passed since we last saw a sample from your Roadster and judging by these results, the years (and your careful operation) appear to have been good to it. All wear is still reading well below average for this type of engine and nothing showed up that would indicate a problem developing. We found a little fuel last time, though that has disappeared. The viscosity was normal for a 10W/60 and the TBN was still good at 3.2, showing active additive left. Try 6000 miles next time. The engine and the oil can both take the extra miles.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,704	UNIT / LOCATION AVERAGES	4,656	3,445	4,312	3,476	UNIVERSAL AVERAGES
	MI/HR on Unit	29,447		24,743	20,087	17,362	9,033	
	Sample Date	04/22/08		10/21/05	07/05/05	09/13/04	07/24/03	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	
	ALUMINUM	4		4	5	5	5	
	CHROMIUM	0		0	0	0	1	
	IRON	9		8	7	9	13	
	COPPER	7		4	4	4	8	
	LEAD	1		2	2	2	3	
	TIN	1		0	0	1	2	
	MOLYBDENUM	3		2	2	1	2	
	NICKEL	1		0	0	0	1	
	MANGANESE	1		1	1	3	7	
	SILVER	0		0	0	0	0	
	TITANIUM	0		0	0	0	0	
	POTASSIUM	4		1	2	0	0	
	BORON	112		98	119	116	103	
	SILICON	5		5	5	6	5	
	SODIUM	4		2	1	4	3	
	CALCIUM	1405		1376	1810	1454	1596	
	MAGNESIUM	539		520	760	570	636	
	PHOSPHORUS	785		756	944	854	864	
	ZINC	953		878	1145	1001	903	
	BARIUM	0		0	0	0	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	91.0	90-117	88.7	90.6	89.6	88.2
	cSt Viscosity @ 100°C	18.22	18.0-24.5	17.66	18.12	17.88	17.54
	Flashpoint in °F	380	>375	365	395	380	395
	Fuel %	<0.5	<1.0	0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.3	0.1	0.2	0.4
	TBN	3.2		4.5	3.4	4.0	3.5
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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