



OIL REPORT

LAB NUMBER: D38199
REPORT DATE: 4/30/2008
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: 4,476 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: The only thing from keeping this a perfect report for the engine in your BMW was that the oil's viscosity was just slightly - a tiny bit - below normal for a 10W/60-grade. Usually when it is just below normal it's due to a little gas in the oil. Engine wear continues to look terrific with all of the wear metals reading basically the same as your last sample. The steady trend of wear is a good indication that no mechanical issues are occurring. The TBN was 3.8, which is still a lot of active additive left in the oil. Try ~5,000 miles next time. Your Roadster can handle it!
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,476	UNIT / LOCATION AVERAGES	4,704	4,656	3,445	4,312	3,476	UNIVERSAL AVERAGES
	MI/HR on Unit	33,923		29,447	24,743	20,087	17,362	9,033	
	Sample Date	04/18/08		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	0 qts	
	ALUMINUM	4	5	4	4	5	5	5	5
	CHROMIUM	0	0	0	0	0	0	1	0
	IRON	9	9	9	8	7	9	13	10
	COPPER	5	5	7	4	4	4	8	7
	LEAD	2	2	1	2	2	2	3	3
	TIN	1	1	1	0	0	1	2	0
	MOLYBDENUM	2	2	3	2	2	1	2	18
	NICKEL	0	0	1	0	0	0	1	1
	MANGANESE	1	2	1	1	1	3	7	2
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0	0
	POTASSIUM	5	2	4	1	2	0	0	1
	BORON	113	110	112	98	119	116	103	89
	SILICON	5	5	5	5	5	6	5	5
	SODIUM	4	3	4	2	1	4	3	4
	CALCIUM	1432	1512	1405	1376	1810	1454	1596	1705
	MAGNESIUM	568	599	539	520	760	570	636	498
	PHOSPHORUS	826	838	785	756	944	854	864	816
	ZINC	1018	983	953	878	1145	1001	903	978
	BARIUM	0	0	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210 °F	89.9	90-117	91.0	88.7	90.6	89.6	88.2
	cSt Viscosity @ 100 °C	17.96	18.0-24.5	18.22	17.66	18.12	17.88	17.54
	Flashpoint in °F	405	>375	380	365	395	380	395
	Fuel %	<0.5	<1.0	<0.5	0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.1	0.3	0.1	0.2	0.4
	TBN	3.8		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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