BLACKSTONE LABORATORIES

P.O. NUMBER CC: Visa (Prepaid)
CODE: 20/13187/121

UNIT NUMBER MROADSTER
REPORT DATE: 7/11/05
LAB NUMBER: C49555

OIL REPORT

CLIENT

CONTACT:
NAME: DANIEL W MCROBB
ADDRESS: 5917 LOCH LODEN DR
DEXTER, MI 48130

PHONE: (734) 332-0344
FAX:
E-MAIL: dwm@mcplex.net

UNIT

EQUIPMENT MAKE: BMW
EQUIPMENT MODEL: 3.2L I-6 (S-54)
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL USE INTERVAL: 3,445 Miles
OIL TYPE & GRADE: Castrol TWS 10W/60
MAKE-UP OIL ADDED: 0 qts

COMMENTS

DANIEL: It's been about a year since we've seen an oil from this engine and in the meantime, nothing of significance has changed. Wear reads better than average and shows no new problems developing in your Roadster. This oil could have been run longer so you may want to consider going to 4000-4500 miles oil use for the next sample. Air and oil filtration were functioning normally while this oil was in use. The TBN read 3.4, not much active additive left. We found no gas, moisture or anti-freeze in this sample. Nice engine!

ELEMENTS IN PARTS PER MILLION

MI/HR ON OIL	3,445	UNIT / LOCATION AVERAGES	4,312	3,476				UNIVERSAL AVERAGES
MI/HR ON UNIT	20,087		17,362	9,033				
SAMPLE DATE	07/05/05		09/13/04	07/24/03				
ALUMINUM	5	5	5	5				5
CHROMIUM	0	0	0	1				1
IRON	7	10	9	13				11
COPPER	4	5	4	8				7
LEAD	2	2	2	3				3
TIN	0	1	1	2				1
MOLYBDENUM	2	2	1	2				16
NICKEL	0	0	0	1				1
MANGANESE	1	4	3	7				2
SILVER	0	0	0	0				0
TITANIUM	0	0	0	0				0
POTASSIUM	2	1	0	0				1
BORON	119	113	116	103				89
SILICON	5	5	6	5				6
SODIUM	1	3	4	3				4
CALCIUM	1810	1620	1454	1596				1709
MAGNESIUM	760	655	570	636				521
PHOSPHORUS	944	887	854	864				808
ZINC	1145	1016	1001	903				960
BARIUM	0	0	0	0				0

PROPERTIES

TEST	cST VISCOSITY @ 40 °C	SUS VISCOSITY @ 100 °F	VISCOSITY INDEX	cST VISCOSITY @ 100 °C	SUS VISCOSITY @ 210 °F	FLASHPOINT IN °F	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %
VALUES SHOULD BE					87-98	>375	<1.0	0	0.0	<0.6
TESTED VALUES WERE					90.6	395	<0.5	0.0	0.0	0.1

LIABILITY LIMITED TO COST OF SAMPLE ANALYSIS

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