

P.O. NUMBER CC: Visa CODE: 20/13260/37

OIL REPORT

UNIT NUMBER 1 OF 1 REPORT DATE: 8/9/04 LAB NUMBER: C24287

CONTACT: PHONE: (860) 295-9986

NAME: RON STYGAR FAX:

ADDRESS: 12 OAK DR E-MAIL: ronstygar@aol.com

MARLBOROUGH, CT 06447

EQUIPMENT MAKE: BMW OIL USE INTERVAL: 4,441 Miles

EQUIPMENT MODEL: 3.2L I-6 (S-54) OIL TYPE & GRADE: Castrol 10W/60 (Gas)

FUEL TYPE: Gasoline (Unleaded) MAKE-UP OIL ADDED: 0 qts

ADDITIONAL INFO: M-Z3 Coupe '01

RON: Lead, from bearings, hasn't changed enough from the last sample to notice. 3 ppm lead is average for this type engine, and the miles oil use was average (for the type) as well. Copper came up a little high, source unknown. It may be from a bronze bushing and is at about twice average in this sample (see universal averages). We will keep an eye on the copper for you in the next sample. Chances are, it is a one-time anomaly. Your air and oil filtration systems are still doing well. We found no gas, moisture or any signs of engine coolant in this sample.

	MI/HR ON OIL	4,441	UNIT /	4,518	4,531					
	MI/HR ON UNIT	27,500	LOCATION	23,059	18,541				UNIVERSAL AVERAGES	
	SAMPLE DATE	08/01/04	AVERAGES	12/04/03	08/12/03					
7										
NO	ALUMINUM	4	4	4	5				5	
Е	CHROMIUM	1	1	1	1				1	
	IRON	8	10	9	14				11	
	COPPER	15	11	7	10				7	
出册	LEAD	3	4	2	8				3	
Д	TIN	1	1	1	2				1	
S	MOLYBDENUM	1	1	1	0				15	
ΥT	NICKEL	1	1	1	1				1	
A	MANGANESE	0	0	0	0				2	
<u> </u>	SILVER	0	0	0	0				0	
Z	TITANIUM	0	0	0	0				0	
S	POTASSIUM	0	0	0	0				1	
Ĕ	BORON	91	104	118	103				87	
	SILICON	4	5	5	5				6	
Σ	SODIUM	7	4	2	3				4	
<u> </u>	CALCIUM	1248	1564	1539	1904				1659	
П	MAGNESIUM	504	568	558	643				531	
	PHOSPHORUS	690	802	753	964				797	
	ZINC	829	957	927	1114				946	
	BARIUM	0	0	0	0				0	

STIES	TEST	cST VISCOSITY @ 40 °C	SUS VISCOSITY @ 100 °F	VISCOSITY INDEX	cST VISCOSITY @ 100 ℃	SUS VISCOSITY @ 210 °F	FLASHPOINT IN °F	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %
PEF	VALUES SHOULD BE					86-98	>370	<1.0	0	0.0	<0.6
PRO	TESTED VALUES WERE					86.4	380	<0.5	0.0	0.0	0.2

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