

BLACKSTONE

LABORATORIES

UNIT NUMBER: 330I
 REPORT DATE: 10/25/05
 LAB NUMBER: C58232

P.O. NUMBER: CC:
 CODE: 1/20515/37

OIL REPORT

CLIENT	CONTACT:	PHONE:
	NAME:	FAX:
	ADDRESS:	E-MAIL:

UNIT	EQUIPMENT MAKE: BMW	OIL USE INTERVAL: 7,800 Miles
	EQUIPMENT MODEL: 3.0L 6-cyl	OIL TYPE & GRADE: Castrol 5W/30 (gas)
	FUEL TYPE: Gasoline (Unleaded)	MAKE-UP OIL ADDED:
	ADDITIONAL INFO:	

COMMENTS TOM: You generally won't go too far wrong with following the manufacturer's recommendations, but we do think that 15K miles on the factory fill would be a little much. These wear-in metals are not abnormal; they are from new parts breaking in. Nonetheless, we think you chose a good time to get this oil out of the engine, since they are making the fill more abrasive than we like to see. Your next sample should bring lower metals, and though they may not be at average levels at that point, they should be close. No contaminants found. 15K should be okay once past wear-in.

ELEMENTS IN PARTS PER MILLION	MI/HRS ON OIL	7,800	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HRS ON UNIT	7,800						
	SAMPLE DATE	10/08/05						
ALUMINUM	26	26					4	
CHROMIUM	1	1					0	
IRON	33	33					12	
COPPER	20	20					7	
LEAD	4	4					2	
TIN	3	3					1	
MOLYBDENUM	4	4					97	
NICKEL	4	4					0	
MANGANESE	20	20					1	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	2	2					1	
BORON	4	4					60	
SILICON	12	12					5	
SODIUM	9	9					5	
CALCIUM	1202	1202					2743	
MAGNESIUM	908	908					150	
PHOSPHORUS	729	729					831	
ZINC	857	857					999	
BARIIUM	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					56-62	>365	<1.0	0	<0.1	<0.6
	TEST VALUES WERE					63.4	390	<0.5	0.0	0.0	0.3