



OIL REPORT

LAB NUMBER: E26284
 REPORT DATE: 9/9/2010
 CODE: 63/75

UNIT ID: 10 M3
 CLIENT ID: 42985
 PAYMENT: CC: MC

UNIT	MAKE/MODEL: BMW 4.0L S65	OIL TYPE & GRADE: Castrol Syntec 10W/60
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,800 Miles
	ADDITIONAL INFO: E92	

CLIENT	ShadeD1	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

COMMENTS JAMES: Fear not, we found nothing in this sample that we didn't expect to find in the first sample from your new BMW. The excess wear metals are due to new parts breaking-in, while silicon is from sand-casted parts and sealers used when assembling your engine. Both should improve with subsequent oil changes. Universal averages for BMW's M52 engine are based on an oil run of 6,000 miles. Going longer on your next oil shouldn't be a problem -- the wear metals should still drop. Try 6,500 miles next time. As wear looks better we'll suggest going even longer.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,800	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	7,000						
	Sample Date	08/20/10						
	Make Up Oil Added	0 qts						
ALUMINUM	7	7					3	
CHROMIUM	0	0					0	
IRON	22	22					9	
COPPER	18	18					3	
LEAD	3	3					2	
TIN	6	6					0	
MOLYBDENUM	2	2					61	
NICKEL	0	0					0	
MANGANESE	1	1					0	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	6	6					1	
BORON	57	57					57	
SILICON	7	7					4	
SODIUM	6	6					7	
CALCIUM	1508	1508					2322	
MAGNESIUM	774	774					123	
PHOSPHORUS	887	887					753	
ZINC	1060	1060					908	
BARIUM	1	1					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	80.1	80-95				
	cSt Viscosity @ 100°C	15.56	15.5-19.4				
	Flashpoint in °F	390	>395				
	Fuel %	TR	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.2	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com