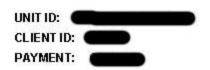


OIL REPORT

LAB NUMBER: F32670 **REPORT DATE:** 12/10/2012

CODE: 20/75



UNIT

MAKE/MODEL: BMW 4.4L Twin Turbo (S63B44)

FUEL TYPE: Gasoline (Unleaded) ADDITIONAL INFO: 2013 M6 OIL TYPE & GRADE: Castrol 5W/30 OIL USE INTERVAL: 1,245 Miles

CLIENT



PHONE: FAX: ALT PHONE: EMAIL:

EDWARD: Congrats on your new M6. We haven't even seen one on the lot yet over here, let alone prowling the roads. There's nothing too unusual about this sample. In fact, considering the engine is brand new, things look pretty good. Copper and tin show wear-in of brass/bronze parts, which isn't unusual. Typically, we see the other metals and silicon reading high, but that didn't happen here--not that we're complaining. No fuel or coolant was present and air and oil filtration are good. We'll know more as trends develop, but for now the engine seems healthy.

MI/HR on Oil	1,245		
MI/HR on Unit	1,245	UNIT/ LOCATION	UNIVERSAL
Sample Date	11/26/12	AVERAGES	AVERA GES
Make Up Oil Added			
ALUMINUM	7	6	
ALUMINUM CHROMIUM IRON	0	0	
IRON	13	13	1
COPPER	26	21	1
LEAD TIN	1	0	
ALCONOMIC CONTRACTOR C	13	3	
MOLYBDENUM NICKEL MANGANESE	1	139	13
NICKEL	1	0	
MANGANESE	8	4	
SILVER	0	0	
TIT ANII IM	0	0	
POTASSIUM BORON SILICON SODIUM	10	3	
BORON	67	54	5
SILICON	7	9	
SODIUM	8	7	
CALCIUM	2753	2801	234
MAGNESIUM	20	13	9
PHOSPHORUS	950	834	90
ZINC	1121	939	111
BARIUM	3	2	

Values Should Be*

SUS Viscosity @ 210°F	57.5	54-63	8	Pi .	1	1 1
cSt Viscosity @ 100°C	9.49	8.5-11.3		0	II.	
Flashpoint in "F	420	>365				
Fuel %	< 0.5	<2.0				
Antifreeze %	0.0	0.0				
VVater %	0.0	<0.1				
Insolubles % TBN	0.3	<0.6				
TBN	1,130,000	10 50100		(Î		
TAN						
ISO Code			4)	Ü	Ĺ	

*THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE