



OIL REPORT

LAB NUMBER: F32670
REPORT DATE: 12/10/2012
CODE: 20/75

UNIT ID: [REDACTED]
CLIENT ID: [REDACTED]
PAYMENT: [REDACTED]

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 EDWARD VAN EVERY

PHONE: [REDACTED]
FAX: [REDACTED]
ALT PHONE: [REDACTED]
EMAIL: [REDACTED]

COMMENTS 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.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,245	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	1,245							
	Sample Date	11/26/12							
	Make Up Oil Added								
	ALUMINUM	7	6						5
	CHROMIUM	0	0						0
	IRON	13	13						18
	COPPER	26	21						13
	LEAD	1	0						1
	TIN	13	3						1
	MOLYBDENUM	1	139						137
	NICKEL	1	0						0
	MANGANESE	8	4						3
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	10	3						2
	BORON	67	54						59
	SILICON	7	9						5
	SODIUM	8	7						9
	CALCIUM	2753	2801						2345
	MAGNESIUM	20	13						92
	PHOSPHORUS	950	834						900
	ZINC	1121	939						1112
	BARIUM	3	2						1

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	57.5	54-63					
	cSt Viscosity @ 100°C	9.49	8.5-11.3					
	Flashpoint in °F	420	>365					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.3	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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