



OIL REPORT

LAB NUMBER: G30637

UNIT ID: 13 M3

REPORT DATE: 8/29/2014

CLIENT ID: 75763

CODE: 20/75

PAYMENT: Prepaid

UNIT

MAKE/MODEL: BMW 4.0L (S65) V-8
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Castrol TWS 10W/60
OIL USE INTERVAL: 1,800 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL: dcgolfdr@yahoo.com

COMMENTS

DAVID: Everything you're doing so far with this engine is good. We see no problems at all. You mentioned 5 track days on this oil and 12 total on the engine, and the engine appears to not mind the harder use at all. Universal averages show typical wear levels for BMW's S65 engine after 5,800 miles on the oil. Your oil obviously has fewer miles on it but some of the miles are track time so you probably wanted to change the oil a little sooner to keep wear low. Good idea. No fuel or coolant was present, and the air and oil filters are working well, keeping dirt out of the system.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,800	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	6,800							
	Sample Date	08/26/14							
	Make Up Oil Added	0.5 qt							
	ALUMINUM	5		5					5
	CHROMIUM	0		0					0
	IRON	7		7					8
	COPPER	4		4					4
	LEAD	4		4					7
	TIN	0		0					1
	MOLYBDENUM	76		76					106
	NICKEL	0		0					1
	MANGANESE	1		1					1
	SILVER	0		0					0
	TITANIUM	16		16					18
	POTASSIUM	2		2					2
	BORON	102		102					60
	SILICON	4		4					4
	SODIUM	4		4					6
	CALCIUM	2123		2123					2315
	MAGNESIUM	422		422					266
	PHOSPHORUS	913		913					838
	ZINC	1058		1058					982
	BARIUM	0		0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	95.3	80-100					
	cSt Viscosity @ 100°C	19.25	15.5-20.6					
	Flashpoint in °F	430	>375					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	0.0					
	Insolubles %	TR	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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