



OIL REPORT

LAB NUMBER: E94752

UNIT ID: 03 GOLF

REPORT DATE: 3/20/2012

CLIENT ID: 47114

CODE: 44/75

PAYMENT: Prepaid

UNIT	MAKE/MODEL: Volkswagen 1.9L Turbo (TDI)	OIL TYPE & GRADE: Mobil 1 5W/40 Turbo Diesel Truck
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,000 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS
 BRIAN: Nice! Wear metals improved in this second sample from your Golf, and since this oil was run the same amount of miles as the last, that's nice to see. Universal averages show that most 1.9L TDI's get much higher wear than yours even on shorter oil runs (the average time on the oil is ~8,200 miles). The only possible issue this time is silicon, which may show abrasive dirt, so check air filtration. On the other hand, it might be a harmless sealer if you've had any engine work done recently. We'll monitor it next time. For now, this oil looks good; leave it in another 2K-3K miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,000	UNIT / LOCATION AVERAGES	10,000				UNIVERSAL AVERAGES
	MI/HR on Unit	150,000		130,000				
	Sample Date	03/06/12		03/15/11				
	Make Up Oil Added	0.75 qt						
ALUMINUM	2	3	3				5	
CHROMIUM	1	1	1				2	
IRON	12	16	19				38	
COPPER	1	2	2				3	
LEAD	1	1	0				2	
TIN	0	0	0				1	
MOLYBDENUM	1	2	3				20	
NICKEL	0	0	0				1	
MANGANESE	0	0	0				1	
SILVER	1	1	0				0	
TITANIUM	0	0	0				0	
POTASSIUM	0	4	7				4	
BORON	50	45	39				33	
SILICON	18	11	3				5	
SODIUM	0	8	15				7	
CALCIUM	2661	2802	2943				2123	
MAGNESIUM	643	541	439				295	
PHOSPHORUS	1285	1265	1245				942	
ZINC	1375	1364	1353				1121	
BARIUM	0	0	0				0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	73.9	66-78	70.6			
	cSt Viscosity @ 100°C	13.97	11.9-15.3	13.10			
	Flashpoint in °F	420	>410	425			
	Fuel %	<0.5	<2.0	<0.5			
	Antifreeze %	0.0	0.0	0.0			
	Water %	0.0	<0.1	0.0			
	Insolubles %	0.3	<0.8	0.3			
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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