



OIL REPORT

LAB NUMBER: G52433

UNIT ID: 02 GOLF TDI

REPORT DATE: 12/29/2014

CLIENT ID: [REDACTED]

CODE: 63/75

PAYMENT: CC: MC

UNIT	MAKE/MODEL: Volkswagen 1.9L Turbo (TDI)	OIL TYPE & GRADE: Liqui Moly Synthoil High Tech 5W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,000 Miles
	ADDITIONAL INFO:	

CLIENT	CASEY FRIDAY	PHONE: (210) 695-0131
	[REDACTED]	FAX:
	[REDACTED]	ALT PHONE:
	[REDACTED]	EMAIL: casey@caseyfriday.com
	[REDACTED]	

COMMENTS TODD: Thanks for the note on the increased MPG. That's a pretty impressive jump. We're not seeing any real major changes in terms of engine wear. Metals are pretty steady compared to last time, and that's always nice to see, even if it does mean that lead is still a little elevated. At least it's getting better and not worse. We'll see if that trend continues. No fuel contamination was found in the oil, and no water or coolant turned up either. Insolubles are a little higher showing more oil oxidation, though this level is still well below limits, so it's fine. Try up to 12,000 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,000	UNIT / LOCATION AVERAGES	10,107				UNIVERSAL AVERAGES
	MI/HR on Unit	183,100		173,276				
	Sample Date	12/09/14		12/28/13				
	Make Up Oil Added	0 qts						
ALUMINUM	3	4	4					5
CHROMIUM	1	1	1					2
IRON	39	37	34					39
COPPER	4	4	4					3
LEAD	6	8	9					2
TIN	6	3	0					1
MOLYBDENUM	1	1	1					23
NICKEL	1	1	1					1
MANGANESE	1	1	0					1
SILVER	0	0	0					0
TITANIUM	0	0	0					0
POTASSIUM	0	0	0					4
BORON	51	49	46					35
SILICON	5	4	2					5
SODIUM	3	3	2					7
CALCIUM	2718	2264	1810					1991
MAGNESIUM	11	12	12					375
PHOSPHORUS	1028	871	713					955
ZINC	1155	966	776					1132
BARIUM	0	0	0					0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	69.8	66-78	68.4			
	cSt Viscosity @ 100°C	12.89	11.9-15.3	12.54			
	Flashpoint in °F	425	>410	405			
	Fuel %	<0.5	<2.0	0.5			
	Antifreeze %	0.0	0.0	0.0			
	Water %	0.0	<0.1	0.0			
	Insolubles %	0.5	<0.8	0.3			
	TBN			2.6			
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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