



OIL REPORT

LAB NUMBER: E06428

UNIT ID: 05 PASSAT

REPORT DATE: 3/17/2010

CLIENT ID: 31322

CODE: 20/284

PAYMENT: CC: AmEx

UNIT

MAKE/MODEL: Volkswagen 2.0L Turbo (TDI)
FUEL TYPE: Diesel
ADDITIONAL INFO:

OIL TYPE & GRADE: Mobil 1 5W/40 TDT CI4
OIL USE INTERVAL: 10,044 Miles

CLIENT

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COMMENTS

ANTHONY: This is the third oil since the balance shaft was replaced and we are still finding aluminum reading more than 4-times higher than average for the VW 2.0L Turbo TDI diesel. Our universal averages show typical wear for this type engine after 6,300 miles of oil use. Since aluminum is staying high we suggest lowering your oil change interval to ~6K-miles. That can help control the amount of excess and abrasive metal that's getting into the oil and contributing to the high wear, which may be coming from the pistons. All else looked good. Check back in ~6K-miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,044	UNIT / LOCATION AVERAGES	9,300	8,626				UNIVERSAL AVERAGES
	MI/HR on Unit				65,100				
	Sample Date	02/27/10		10/31/09	07/04/09				
	Make Up Oil Added	1 qt		0.5 qt	0.25 qt				
	ALUMINUM	21		20	57				
	CHROMIUM	1		1	1				
	IRON	27		32	55				
	COPPER	3		4	10				
	LEAD	2		2	4				
	TIN	2		1	0				
	MOLYBDENUM	1		2	7				
	NICKEL	3		4	10				
	MANGANESE	1		1	2				
	SILVER	0		0	0				
	TITANIUM	0		0	0				
	POTASSIUM	0		5	5				
	BORON	41		30	31				
	SILICON	8		8	45				
	SODIUM	3		5	9				
	CALCIUM	1765		1360	1590				
PROPERTIES	MAGNESIUM	932	878	911	790				246
	PHOSPHORUS	1753	1487	1583	1124				844
	ZINC	2185	1766	1746	1367				1009
	BARIUM	0	0	0	0				0
	Values Should Be*								
	SUS Viscosity @ 210°F	72.5	66-78	72.9	64.5				
	cSt Viscosity @ 100°C	13.62	11.9-15.3	13.72	11.46				
PROPERTIES	Flashpoint in °F	445	>410	440	485				
	Fuel %	<0.5	<2.0	<0.5	<0.5				
	Antifreeze %	0.0	0.0	0.0	0.0				
	Water %	0.0	<0.1	0.0	0.0				
	Insolubles %	0.3	<0.8	0.3	0.4				
	TBN				4.2				
	TAN								
	ISO Code								
	* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE								

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