



OIL REPORT

LAB NUMBER: D81071

UNIT ID: 05 PASSAT

REPORT DATE: 7/10/2009

CLIENT ID: 31322

CODE: 20/286

PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Volkswagen 2.0L Turbo (TDI)	OIL TYPE & GRADE: Mobil 1 5W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 8,626 Miles
	ADDITIONAL INFO:	

CLIENT	ANTHONY ALUKNAVICH	PHONE: (281) 727-9751
	30 STILL CORNER PLACE	FAX:
	THE WOODLANDS, TX 77381	ALT PHONE:
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COMMENTS	ANTHONY: Thanks for the note about the work done on this engine. We suspect that accounts for most of the excess wear and silicon that showed up here. Whenever new parts are added, we often see wear read high temporarily when those parts going through break-in, and silicon shows up from sealers use when things are put back together. If the job was done right, we should see a nice movement in both categories next time. Universal averages show typical wear after ~6,400 miles on the oil. The low viscosity wasn't a problem and the TBN was strong at 4.2.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	8,626	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit	65,100								
	Sample Date	07/04/09								
	Make Up Oil Added	0.25 qt								
	ALUMINUM	57		57						5
	CHROMIUM	1		1						1
	IRON	55		55						34
	COPPER	10		10						4
	LEAD	4		4						4
	TIN	0		0						1
	MOLYBDENUM	7		7						5
	NICKEL	10		10						2
	MANGANESE	2		2						1
	SILVER	0		0						0
	TITANIUM	0		0						0
	POTASSIUM	5		5						4
	BORON	31		31						35
	SILICON	45		45						5
	SODIUM	9		9						7
	CALCIUM	1590		1590						2047
	MAGNESIUM	790		790						258
	PHOSPHORUS	1124		1124						842
	ZINC	1367		1367						1021
	BARIUM	0		0						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	64.5	66-78						
	cSt Viscosity @ 100°C	11.46	11.9-15.3						
	Flashpoint in °F	485	>410						
	Fuel %	<0.5	<2.0						
	Antifreeze %	0.0	0.0						
	Water %	0.0	<0.1						
	Insolubles %	0.4	<0.8						
	TBN	4.2							
	TAN								
	ISO Code								

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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