



OIL REPORT

LAB NUMBER: D57038

UNIT ID: 09 JETTA

REPORT DATE: 11/3/2008

CLIENT ID: 32718

CODE: 20/34

PAYMENT: CC: Visa (Bulk)

UNIT	MAKE/MODEL: Volkswagen 2.0L Turbo (TDI)	OIL TYPE & GRADE: Diesel Engine Oil
	FUEL TYPE: Diesel	OIL USE INTERVAL: 4,062 Miles
	ADDITIONAL INFO: Running ASTM Certified B99 bio-diesel	

CLIENT	RODNEY HILL	PHONE:
	865 E COLLEGE ST	FAX:
	MT ANGEL, OR 97362	ALT PHONE:
		EMAIL: rodney.hill@xerox.com

COMMENTS RODNEY: We found some fuel dilution in this sample, but we tend to find a lot of junk in the factory oil, so we aren't going to call this level a problem. Most of the excess wear is from break-in of new parts and this should improve nicely next time. Potassium and silicon are leftover from when the engine was assembled and these should also wash out in another oil change or two. Universal averages show typical wear levels from this type of engine after about 6,100 miles on the oil. Suggest changing this oil to help clean the engine up and check back in ~5,000 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,062	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	4,062						
	Sample Date	10/23/08						
	Make Up Oil Added	0 qts						
ALUMINUM	118	118					5	
CHROMIUM	6	6					1	
IRON	55	55					32	
COPPER	42	42					4	
LEAD	2	2					5	
TIN	1	1					1	
MOLYBDENUM	3	3					5	
NICKEL	1	1					2	
MANGANESE	5	5					1	
SILVER	0	0					0	
TITANIUM	1	1					0	
POTASSIUM	236	236					4	
BORON	2	2					35	
SILICON	30	30					4	
SODIUM	5	5					7	
CALCIUM	1170	1170					2071	
MAGNESIUM	8	8					314	
PHOSPHORUS	562	562					874	
ZINC	628	628					1057	
BARIUM	1	1					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	57.0					
	cSt Viscosity @ 100°C	9.36					
	Flashpoint in °F	390	>415				
	Fuel %	2.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.3	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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