



OIL REPORT

LAB NUMBER: G18940
 REPORT DATE: 6/26/2014
 CODE: 44/501

UNIT ID: 13 PASSAT
 CLIENT ID: 66289
 PAYMENT: CC: MC

UNIT	MAKE/MODEL: Volkswagen 2.0L TDI 2012+ Passat	OIL TYPE & GRADE: Pentosin Super Performance III Syn. 5
	FUEL TYPE: Diesel	OIL USE INTERVAL: 4,200 Miles
	ADDITIONAL INFO:	

CLIENT	LINFORD BERRY	PHONE: (540) 476-3309
	350 BOWMAN ROAD	FAX:
	DAYTON, VA 22821	ALT PHONE:
		EMAIL: linfordberry@yahoo.com

COMMENTS
 LINFORD: Well, the trend of increasing aluminum continues -- at an almost alarming rate. Considering this oil change interval was shorter than the last one, we're quite surprised to find that aluminum increased nearly 20 ppm. This is showing some excess wear at the pistons, or possibly bearings. We don't think it would be coming from the emissions anymore, given potassium's further improvement. Are you doing any crazy stuff with this VW? Taking it to the track, maybe? The TBN is good, and no contaminants were found. Check back in 3,000 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,200	UNIT / LOCATION AVERAGES	5,100	5,000	4,976	UNIVERSAL AVERAGES
	MI/HR on Unit	19,342		15,318	10,188	4,976	
	Sample Date	06/05/14		03/25/14	11/04/13	08/12/13	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	
ALUMINUM	67	67	49	42	30	39	
CHROMIUM	2	2	2	2	3	2	
IRON	32	32	39	34	45	28	
COPPER	7	7	11	11	26	8	
LEAD	0	0	0	0	0	0	
TIN	0	0	0	1	3	1	
MOLYBDENUM	2	2	3	1	2	16	
NICKEL	1	1	1	0	0	1	
MANGANESE	1	1	1	1	4	1	
SILVER	0	0	0	0	0	0	
TITANIUM	1	1	1	1	1	1	
POTASSIUM	7	7	16	37	53	22	
BORON	2	2	3	2	3	28	
SILICON	3	3	3	5	21	4	
SODIUM	2	2	2	3	6	4	
CALCIUM	1499	1499	1395	1533	1467	1450	
MAGNESIUM	5	5	6	6	9	10	
PHOSPHORUS	697	697	664	709	737	721	
ZINC	808	808	780	778	852	838	
BARIUM	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	64.3	57-65	62.3	62.7	64.6
	cSt Viscosity @ 100°C	11.41	9.4-11.9	10.87	10.99	11.51
	Flashpoint in °F	450	>410	440	450	440
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.2	0.2	0.1
	TBN	4.3	>1.0	3.1	4.9	2.8
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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