



OIL REPORT

LAB NUMBER: F30583

UNIT ID: VW

REPORT DATE: 11/27/2012

CLIENT ID: 42691

CODE: 44/501

PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Volkswagen 2.0L Turbo	OIL TYPE & GRADE: 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 Miles
	ADDITIONAL INFO:	

CLIENT	MICHAEL PANCHERI	PHONE: (917) 626-3368
	TYROLLSPORT	FAX:
	16-45 STEPHEN STREET	ALT PHONE:
	RIDGEWOOD, NY 11385	EMAIL: Mike@tyrolsport.com

COMMENTS	MIKE: There's a fair amount of metal in this sample, though we're not ready to get too excited about this considering how new this engine is. A lot of the metal here is probably just residual wear-in that hasn't had a chance to wash out of the engine yet. And silicon is probably from sealers. Lead might show bearing wear, but we're not ready to call just 5 ppm an issue yet. We'll see how things look next time. Averages are based on a ~5,400 miles oil run. Check back in 5,000 miles for another look. TBN was strong at 2.1, so lots of active additive was left. Amended report.
----------	---

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,000	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit	10,000								
	Sample Date	11/20/12	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	Make Up Oil Added	0 qts								
	ALUMINUM	9	9							4
	CHROMIUM	2	2							1
	IRON	70	70							32
	COPPER	22	22							6
	LEAD	5	5							2
	TIN	0	0							1
	MOLYBDENUM	87	87							40
	NICKEL	1	1							1
	MANGANESE	6	6							3
	SILVER	0	0							0
	TITANIUM	0	0							0
	POTASSIUM	3	3							3
	BORON	6	6							37
	SILICON	18	18							5
	SODIUM	6	6							8
	CALCIUM	2249	2249							2007
	MAGNESIUM	11	11							358
	PHOSPHORUS	1113	1113							846
	ZINC	1096	1096							1000
	BARIUM	0	0							0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	67.2	65-78						
	cSt Viscosity @ 100°C	12.21	11.6-15.3						
	Flashpoint in °F	385	>375						
	Fuel %	<0.5	<2.0						
	Antifreeze %	0.0	0.0						
	Water %	0.0	<0.1						
	Insolubles %	0.3	<0.6						
	TBN	2.1	>1.0						
	TAN								
	ISO Code								

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com