



# OIL REPORT

LAB NUMBER: E98334

UNIT ID: 86 911

REPORT DATE: 4/16/2012

CLIENT ID: 44411

CODE: 20/75

PAYMENT: Prepaid

<b>UNIT</b>	MAKE/MODEL: Porsche 3.2L Air-Cooled	OIL TYPE & GRADE: Brad Penn 20W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	RAY MCDONALD	PHONE: (301) 254-5245
	10424 HUNTLEY AVE	FAX:
	SILVER SPRING, MD 20902-3853	ALT PHONE:
		EMAIL: bulurbor@yahoo.com

**COMMENTS** RAY: As you can see, this Brad Penn oil has a stouter additive package than the Valvoline you were using before. We're also seeing more metal in the oil, and that's partly due to your longer oil change. The metal we're mostly concerned with is lead though, and lead should not increase just because you added 1,000 miles to the oil run. Copper is up too--both metals are probably from the bearings If you did any racing or other hard operation, that may explain it, but if not then we'd try a different oil next time. 5,000 miles shouldn't be too long to run your oil.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	5,000	<b>UNIT / LOCATION AVERAGES</b>	4,000			<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	80,050		75,000			
	Sample Date	04/14/12		10/28/10			
	Make Up Oil Added	5 qts		1.5 qts			
ALUMINUM	2	2	1			3	
CHROMIUM	0	0	0			0	
IRON	6	5	4			8	
COPPER	12	9	6			8	
LEAD	13	8	3			4	
TIN	0	0	0			1	
MOLYBDENUM	5	9	12			49	
NICKEL	0	1	1			1	
MANGANESE	1	1	0			0	
SILVER	4	3	1			0	
TITANIUM	0	0	0			0	
POTASSIUM	1	2	2			1	
BORON	15	14	13			80	
SILICON	5	15	24			10	
SODIUM	401	335	268			79	
CALCIUM	1578	1451	1324			2115	
MAGNESIUM	617	488	359			233	
PHOSPHORUS	1085	954	823			954	
ZINC	1140	1026	911			1170	
BARIUM	0	0	0			0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	87.6	75-90	85.3		
	cSt Viscosity @ 100°C	17.39	14.3-18.2	16.84		
	Flashpoint in °F	380	>385	405		
	Fuel %	TR	<2.0	<0.5		
	Antifreeze %	-	0.0	-		
	Water %	TR	<0.1	0.0		
	Insolubles %	0.2	<0.6	0.3		
	TBN					
	TAN					
	ISO Code					

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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