



# OIL REPORT

LAB NUMBER: E36377      UNIT ID: 944 0223  
 REPORT DATE: 11/29/2010      CLIENT ID: 44785  
 CODE: 111/75      PAYMENT: Prepaid

<b>UNIT</b>	MAKE/MODEL: Porsche 2.5L 4 Cyl	OIL TYPE & GRADE: Brad Penn 20W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 1,467 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

**COMMENTS** About 2.0% of the sample was fuel, which lowered the viscosity of the oil quite a bit. Some fuel is usually okay (from idling or city driving), but 2.0% is excessive and could be a problem. Watch the oil level for increases from fuel contamination. Insolubles are solids that form in the oil and 0.3% is okay. Averages show typical wear from the Porsche 2.5L engine after ~2,000 miles. Bearing wear (lead) is high - maybe from fuel dilution. All other wear is okay. Sodium is an oil additive in this oil and not coolant. Check the fuel system and resample after ~1,500 miles.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	1,467	<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	86,967						
	Sample Date	11/21/10						
	Make Up Oil Added	0 qts						
ALUMINUM	2	2						4
CHROMIUM	2	2						3
IRON	3	3						7
COPPER	6	6						4
LEAD	12	12						3
TIN	0	0						0
MOLYBDENUM	9	9						72
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	2	2						0
POTASSIUM	3	3						0
BORON	3	3						61
SILICON	6	6						5
SODIUM	361	361						6
CALCIUM	1424	1424						2342
MAGNESIUM	536	536						176
PHOSPHORUS	1082	1082						927
ZINC	1153	1153						1118
BARIUM	0	0						0

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	71.0	75-90				
	cSt Viscosity @ 100°C	13.22	14.3-18.2				
	Flashpoint in °F	345	>385				
	Fuel %	2.0	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.3	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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