



OIL REPORT

LAB NUMBER: E93783
 REPORT DATE: 3/13/2012
 CODE: 20/501

UNIT ID: 95 PORSCHE
 CLIENT ID: 46831
 PAYMENT: CC: AmEx

UNIT	EQUIP. MAKE/MODEL: Porsche 3.6L Air-Cooled	OIL TYPE & GRADE: Mobil 1 15W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 1,544 Miles
	ADDITIONAL INFO: 911	

COMMENTS	
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COMMENTS TED: The TBN was still nice and strong at 6.7, so your oil had plenty of active additive left. Unfortunately, copper increased some and it's high enough that we are now starting to think it shows some poor wearing brass/bronze parts. Of course, after only seeing 2 samples, we don't really know how your particular engine wears normally, so we'll wait and see what happens next time before getting too worried about copper. If new parts were added since March of 2011, that may explain it. Add 2,000 miles to this oil and check back for another look.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,544	UNIT / LOCATION AVERAGES	3,462			UNIVERSAL AVERAGES
	MI/HR on Unit	76,794		75,250			
	Sample Date	03/10/12		03/28/11			
	Make Up Oil Added	2 qts		2 qts			
ALUMINUM	5	5	4			3	
CHROMIUM	0	0	0			0	
IRON	12	11	9			9	
COPPER	29	25	21			12	
LEAD	7	6	5			11	
TIN	0	2	3			1	
MOLYBDENUM	86	83	80			73	
NICKEL	1	1	1			1	
MANGANESE	0	0	0			1	
SILVER	2	1	0			0	
TITANIUM	0	0	0			0	
POTASSIUM	0	0	0			1	
BORON	94	96	98			80	
SILICON	3	3	3			7	
SODIUM	9	8	7			100	
CALCIUM	2617	2488	2358			2309	
MAGNESIUM	98	70	41			233	
PHOSPHORUS	1053	1023	993			984	
ZINC	1219	1216	1212			1177	
BARIUM	0	0	0			0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	86.7	75-90	80.5		
	cSt Viscosity @ 100°C	17.19	14.3-18.2	15.64		
	Flashpoint in °F	400	>380	430		
	Fuel %	<0.5	<2.0	<0.5		
	Antifreeze %	-	0.0	-		
	Water %	0.0	0.0	0.0		
	Insolubles %	0.3	<0.6	0.3		
	TBN	6.7		7.0		
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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