



OIL REPORT

LAB NUMBER: F48402
 REPORT DATE: 4/4/2013
 CODE: 20/75

UNIT ID: 01 911
 CLIENT ID: 62746
 PAYMENT: CC: Discover

UNIT	MAKE/MODEL: Porsche 3.4L Flat 6 Cylinder	OIL TYPE & GRADE: Mobil 1 0W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 1,900 Miles
	ADDITIONAL INFO:	

CLIENT	

COMMENTS CHAD: The IMS bearing is a steel, roller-type bearing so it shows up in analysis as high iron. Iron is okay here. However we did find high copper and lead, which shows poor wear at the main/rod bearings. Copper could be from other brass/bronze parts like bushings, too. Silicon could be abrasive dirt getting past the air filter and causing some wear. Check the air filter and induction system for any problems. The viscosity was fine for 0W/40 and no contamination was found. Try changing this oil to help improve wear. Check back to monitor. Lead is cautionary.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,900	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	100,040							
	Sample Date	04/02/13							
	Make Up Oil Added	1 qts							
	ALUMINUM	6	6						4
	CHROMIUM	1	1						1
	IRON	17	17						10
	COPPER	17	17						8
	LEAD	42	42						2
	TIN	0	0						1
	MOLYBDENUM	88	88						74
	NICKEL	1	1						0
	MANGANESE	0	0						1
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	0	0						2
	BORON	180	180						118
	SILICON	20	20						7
	SODIUM	6	6						16
	CALCIUM	3119	3119						2651
	MAGNESIUM	18	18						118
	PHOSPHORUS	964	964						903
	ZINC	1114	1114						1044
	BARIUM	0	0						0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	69.4	65-76					
	cSt Viscosity @ 100°C	12.80	11.6-14.8					
	Flashpoint in °F	385	>375					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0					
	Water %	0.0	<0.1					
	Insolubles %	0.2	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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