OIL REPORT

BLACKSTONE LABORATORIES

LAB NUMBER:
REPORT DATE: 9/19/2016
CODE: 107/685

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT

EQUIP. MAKE/MODEL: Porsche 3.6L H-6	OIL TYPE & GRADE: Red Line 0W/40
FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,282 Miles
ADDITIONAL INFO:	

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

Most wear metals have improved in this latest sample from your C4S, and that's good news, since this is the longest oil run on the page. Lower wear after a longer oil run is almost always a good sign that the engine is running well, with no mechanical problems in the works. We did note that titanium has increased; most likely, that's just an additive in the oil (this Red Line also has more molybdenum and less boron than the Mobil 1 from before), but since it started showing up last time, it's worth watching. The TBN of 6.7 is okay, so try 5,000 miles next oil.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	4,282		3,754	1,642	3,900			
MI/HR on Unit	57,442		53,160	49,406	47,768			
Sample Date	9/12/2016		7/4/2016	5/22/2016	5/3/2016			
Make Up Oil Added	2 qts		2.5 qts	0.5 qts	1 qt			
ALUMINUM	2	7	6	6	15			4
CHROMIUM	0	1	1	0	1			1
IRON	7	13	9	10	24			10
COPPER	2	5	2	4	10			8
LEAD	1	1	0	1	1			3
TIN	1	2	0	5	1			1
MOLYBDENUM	415	178	119	84	93			77
NICKEL	0	0	0	0	1			1
MANGANESE	0	0	0	0	0			1
SILVER	0	0	0	0	0			0
TITANIUM	8	4	6	0	0			0
POTASSIUM	1	2	5	2	1			2
BORON	78	168	177	237	179			111
SILICON	10	7	6	5	8			7
SODIUM	13	7	6	3	6			13
CALCIUM	2872	3051	3080	3148	3102			2605
MAGNESIUM	127	110	142	55	116			128
PHOSPHORUS	1141	986	985	876	940			914
ZINC	1361	1160	1142	1063	1074			1060
BARIUM	0	0	0	0	0			0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	74.4	67-80	70.9	68.6	67.4		
cSt Viscosity @ 100°C	14.09	12.2-15.8	13.19	12.59	12.26		
Flashpoint in °F	410	>385	395	425	410		
Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5		
Antifreeze %	0.0	0.0	0.0	0.0	0.0		
Water %	0.0	<0.1	0.0	0.0	0.0		
Insolubles %	0.2	<0.6	0.3	0.1	0.3		
TBN	6.7	>1.0	8.6	9.1	7.3		
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