

## OIL REPORT

LAB NUMBER: UNIT ID:
REPORT DATE: 6/18/2015 CLIENT ID:
CODE: 20/648 PAYMENT:

EQUIP. MAKE/MODEL: Porsche 3.6L H-6

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

OIL TYPE & GRADE: Total Quartz 5W/40

OIL USE INTERVAL: 4,237 Miles

PHONE: FAX:

ALT PHONE: EMAIL:

OMMENTS

Wear metals are a bit high in this sample from your 02 Carrera, although only aluminum was far enough out of line to deserve a highlight. The other metals all read less than twice the average levels (averages are based on ~3,900 miles c oil use). Aluminum is typically from the pistons, although there could be other sources as well. We also found high sodium, but with no potassium, we don't think that's coolant; more likely it's residual additive from a past oil. The TBN is strong at 6.3, and the particle count is clean at 18/17/15, but check back to monitor aluminum.

MI/HR on Oil MI/HR on Unit Sample Date Make Up Oil Added	4,237 100,484 6/1/2015 0 qts	AVERAGES			UNIVERSAL AVERAGES
Z Iviake op oli Added	บ บุเธ				
ALUMINUM	34	3			4
CHROMIUM  IRON	1	1			1
IRON	20	16			11
<b>≅</b> COPPER	13	16			9
LEAD	1	3			4
TIN	2	0			1
MOLYBDENUM	9	1			79
NICKEL	0	1			1
MANGANESE	1	0			1
SILVER	0	0			0
TTTAINIUW	1	0			0
POTASSIUM	1	1			2
<b>Z</b> BORON	34	42			110
SILICON SODIUM	5	4			7
SODIUM	107	5			14
CALCIUM	2716	2594			2585
MAGNESIUM	34	234			138
PHOSPHORUS	906	918			921
ZINC	1052	1092			 1064
BARIUM	0	0			0

Values Should Be\*

	SUS Viscosity @ 210°F	66.4	65-78				ISO CODE (2)	18/14
	cSt Viscosity @ 100°C	11.99	11.6-15.3			2	NAS 1638 Class	10
S	Flashpoint in °F	390	>375			$\supset$	ISO CODE (3)	18/17/15
Ħ	Fuel %	<0.5	<2.0			ဗ	>= 2 Micron	4,040
K	Antifreeze %	?	0.0			ш	>= 5 Micron	1,496
<u>a</u>	Water %	0.0	<0.1			$\Box$	>= 10 Micron	414
0	Insolubles %	TR	<0.6			$\mathbb{R}$	>= 15 Micron	160
4	TBN	6.3	>1.0			ď	>= 25 Micron	38
	TAN					Ĭ₹	>= 50 Micron	3
	ISO Code	18/17/15		•			>= 100 Micron	0

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE