

OIL REPORT **LAB NUMBER:** F40460 **REPORT DATE:** 2/7/2013

CLIENT ID: 49129

UNIT ID: 06 CARRERA S

CODE: 20/501 PAYMENT: CC: Visa

MAKE/MODEL: Porsche 3.8L
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: Runs track events

OIL TYPE & GRADE: Red Line 5W/40
OIL USE INTERVAL: 1,800 Miles

CHRIS MANTZURANIS 14317 HARVEST MOON RD

14317 HARVEST MOON RD BOYDS, MD 20841 FAX:

ALT PHONE:

EMAIL: spiffyjiff@gmail.com

PHONE: (301) 523-1265

OMMENTS

CLIENT

CHRIS: Thanks for the notes. As you can see, taking the sample from the end of the drain didn't add much more metal to the sample. Wear metals are low and show signs of a well-matured engine. Lead actually came down some in this sample and that kind of improvement is always welcomed. Aluminum was up by 1 ppm, which is hardly enough to get us excited. The TBN read strong at 7.1, showing lots of active additive left. If you're ever interested, you could run the oil longer than this, but we wouldn't blame you for not wanting to mess with a good thing.

Sample Date 01/17/13 Make Up Oil Added 1 qt 1 qt 1 qt 1 qt 1 qt 0.5 qt 0.		MI/HR on Oil	1,800		1,150	1,101	1,913	3,606	3,000	
Sample Date 01/17/13 AVERAGES 09/22/12 07/22/12 06/18/12 03/10/12 08/14/11 AVERAGES Nake Up Oil Added 1 qt 1 qt 1 qt 1 qt 0.5		MI/HR on Unit	50,347		48,559	47,409	46,308	44,395	40,789	UNIVERSAL
Make Up Oil Added		Sample Date	01/17/13		09/22/12	07/22/12	06/18/12	03/10/12	08/14/11	AVERAGES
CHROMIUM		Make Up Oil Added	1 qt		1 qt	1 qt	1 qt	0.5 qt	0.5 qt	
CHROMIUM										
CHROMIUM IRON 6 6 6 7 6 6 7 8 11 COPPER 4 5 4 4 5 7 6 11 LEAD TIN TIN 1 2 3 6 0 1 3 3 2 3 3 4 5 10 MOLYBDENUM 121 114 126 109 109 113 105 80 MANGANESE 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0		ALUMINUM	6	6	5	5	5	6	8	5
COPPER 4 5 4 4 5 7 6 11 LEAD 3 4 5 3 10 3 2 3 TIN 1 2 3 6 0 1 3 2 3 MOLYBDENUM 121 114 126 109 109 113 105 80 NICKEL 0 0 0 0 0 1 0 1 0 1 0 0 MANGANESE 0 0 0 0 0 0 0 0 0 0 0 0 SILVER 0 0 0 0 0 0 0 0 0 0 0 0 TITANIUM 0 0 0 0 0 0 0 0 0 1 1 1 POTASSIUM 0 1 0 1 0 2 0 2 0 2 0 2 SILICON 8 10 10 10 7 7 7 9 12 9 SODIUM 4 4 4 6 7 4 3 3 3 14 CALCIUM 2450 2427 2728 2288 2304 2423 2318 2576 MAGNESIUM 7 8 8 7 7 7 7 8 158 PHOSPHORUS 1200 1132 1318 1080 1124 1087 1004 949 ZINC 1217 1221 1316 1186 1218 1244 1071 1087	ĭ	CHROMIUM	0	0	0	0	0	1	1	1
COPPER	⊌	IRON	6	6	7	6	6	7	8	11
TIN		COPPER	4	5	4	4	5	7	6	11
MOLYBDENUM 121 114 126 109 109 113 105 80 MOLYBDENUM 121 114 126 109 109 113 105 80 NICKEL 0 0 0 0 1 0 1 0 1 0 0 MANGANESE 0 0 0 0 0 0 0 0 0 0 0 1 SILVER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 TITANIUM 0 0 0 0 0 0 0 0 1 1 1 POTASSIUM 0 1 0 2 0 2 0 2 0 2 BORON 7 7 7 3 6 3 5 7 90 SILICON 8 10 10 7 7 7 9 12 9 SODIUM 4 4 4 6 7 4 3 3 3 14 CALCIUM 2450 2427 2728 2288 2304 2423 2318 2576 MAGNESIUM 7 8 8 8 7 7 7 7 8 158 PHOSPHORUS 1200 1132 1318 1080 1124 1087 1004 949 ZINC 1217 1221 1316 1186 1218 1244 1071 1087	监	LEAD	3	4	5	3	10	3	2	3
NICKEL 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0	Д	TIN	1	2	3	6	0	1	3	2
MANGANESE 0 0 0 0 0 0 0 0 0	S	MOLYBDENUM	121	114	126	109	109	113	105	80
SILVER	R	NICKEL	0	0	0	1	0	1	0	0
TITANIUM 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	4	MANGANESE	0	0	0	0	0	0	0	1
TITANIUM 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	Z	SILVER	0	0	0	0	0	0	0	0
POTASSIUM BORON 7 7 7 3 6 3 5 7 90 SILICON SODIUM CALCIUM CALCIUM AGNESIUM 7 8 8 8 7 7 8 8 8 7 7 7 8 8		TITANIUM	0	0	0	0	0	0	1	1
SILICON 8 10 10 7 7 9 12 9 12 9 12 SODIUM 4 4 4 6 7 4 3 3 3 14 14 15 14 1087 1087 1087 1087 1087 1087 1087 1087	ΗĽ	POTASSIUM	0	1	0	2	0	2	0	2
SODIUM 4 4 4 6 7 4 3 3 14 CALCIUM 2450 2427 2728 2288 2304 2423 2318 2576 MAGNESIUM 7 8 8 7 7 7 8 158 PHOSPHORUS 1200 1132 1318 1080 1124 1087 1004 949 ZINC 1217 1221 1316 1186 1218 1244 1071 1087		BORON	7	7	3	6	3	5	7	90
SODIUM 4 4 4 6 7 4 3 3 14 CALCIUM 2450 2427 2728 2288 2304 2423 2318 2576 MAGNESIUM 7 8 8 7 7 7 8 158 PHOSPHORUS 1200 1132 1318 1080 1124 1087 1004 949 ZINC 1217 1221 1316 1186 1218 1244 1071 1087	≅	SILICON	8	10	10	7	7	9	12	9
CALCIUM 2450 2427 2728 2288 2304 2423 2318 2576 MAGNESIUM 7 8 8 7 7 7 8 158 PHOSPHORUS 1200 1132 1318 1080 1124 1087 1004 949 ZINC 1217 1221 1316 1186 1218 1244 1071 1087		SODIUM	4	4	6	7	4	3	3	14
PHOSPHORUS 1200 1132 1318 1080 1124 1087 1004 949 ZINC 1217 1221 1316 1186 1218 1244 1071 1087		CALCIUM	2450	2427	2728	2288	2304	2423	2318	2576
ZINC 1217 1221 1316 1186 1218 1244 1071 1087		MAGNESIUM	7	8	8	7	7	7	8	158
			1200	1132	1318	1080	1124	1087	1004	949
BARIUM I O O O O O O O		ZINC	1217	1221	1316	1186	1218	1244	1071	1087
		BARIUM	0	0	0	0	0	0	0	0

Values

Should Be*

SUS Viscosity @ 210°F	74.4	65-79	73.5	75.8	76.3	71.1	70.7
cSt Viscosity @ 100°C	14.11	11.6-15.5	13.86	14.45	14.58	13.23	13.15
Flashpoint in °F	SHORT	>390	460	425	415	415	440
Fuel %	-	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
Insolubles %	0.2	<0.6	0.1	0.2	0.2	0.1	0.2
TBN	7.1	>1.0	5.9	5.5	4.3	5.4	6.7
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE