OIL REPORT

LAB NUMBER: E57966 **UNIT ID:** 84 928
REPORT DATE: 6/2/2011 **CLIENT ID:** 39615
CODE: 63/75 **PAYMENT:** CC: Visa

UNIT

MAKE/MODEL: Porsche 4.7L 16V
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: RACE CAR
OIL TYPE & GRADE: Amsoil Racing 15W/50
OIL USE INTERVAL: 13 Hours

CLIENT

BRIAN DOTY
6070 CAROLINA CIRCLE
STOCKTON, CA 95219
PHONE: (209) 351-0635
FAX:
ALT PHONE:
EMAIL: icemang17@aol.com

COMMENTS

BRIAN: This is your fourth sample for this Porsche, and the improvement in lead means this engine has two reports with high lead and two without. We're not entirely sure what to make of the high lead - whether it was related to a particle streak through the bearings, hard use, or just poor wear - but the fact that lead is back down here is certainly encouraging. Hopefully this trend (rather than the elevated lead trend) is the one that continues from here on out. Fuel is high, but not problematic at this level, and no other concerns were found.

ELEMENTS IN PARTS PER MILLION

MI/HR on Oil	13	UNIT / LOCATION AVERAGES	12		6			UNIVERSAL AVERAGES
MI/HR on Unit	48			119,000	118,000			
Sample Date	05/27/11		12/15/10	03/10/10	02/10/10			
Make Up Oil Added	4 qts		5 qts	4 qts				
ALUMINUM	4	6	4	5	11			5
CHROMIUM	1	1	2	1	1			2
IRON	6	11	9	8	21			9
COPPER	3	4	3	3	5			9
LEAD	5	15	**27**	**20**	6			8
TIN	0	0	0	0	1			0
MOLYBDENUM	6	5	3	4	6			22
NICKEL	1	1	0	0	1			0
MANGANESE	1	3	3	2	4			1
SILVER	0	0	1	0	0			0
TITANIUM	0	0	0	0	0			0
POTASSIUM	4	5	6	3	8			2
BORON	17	15	12	15	17			29
SILICON	6	17	**43**	5	**15**			5
SODIUM	3	8	12	8	9			15
CALCIUM	1841	1832	1774	1816	1896			1726
MAGNESIUM	11	14	20	11	13			137
PHOSPHORUS	1351	1307	1263	1271	1343			979
ZINC	1563	1527	1439	1481	1623			1130
BARIUM	0	0	0	0	0			0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	84.8	79-92	**78.4**	82.5	80.6		
cSt Viscosity @ 100°C	16.71	15.3-18.7	**15.13**	16.14	15.68		
Flashpoint in °F	**355**	>390	**390**	430	395		
Fuel %	1.8	<2.0	TR	<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 %	0.3	<0.6	0.3	0.3	0.4		
TBN							
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