



OIL REPORT

LAB NUMBER: P23596 UNIT ID: PORSCHE
 REPORT DATE: 12/28/2021 CLIENT ID: 180691
 CODE: 20/68 PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Porsche 3.8L H-6 DFI	OIL TYPE & GRADE: Liqui Moly Leichtlauf HT 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,900 Miles
	ADDITIONAL INFO: 2009 911	

CLIENT	PHONE: [REDACTED]
	FAX: [REDACTED]
	ALT PHONE: [REDACTED]
	EMAIL: [REDACTED]

COMMENTS KEVIN: There are a few changes compared to the first report from your 911, but nothing that has us concerned for this H-6 engine. The viscosity tested a bit low, but not due to fuel dilution. The flashpoint tested high enough to show no measurable fuel in the oil. If the 2 quarts of make-up oil you added were close to a 5W/30, maybe that's behind the lower viscosity. Regardless, the oil clearly did a good job of protecting the internal parts -- wear metals remain in great shape compared to averages -- so the viscosity isn't much of a concern. Looks great!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,900	UNIT / LOCATION AVERAGES	5,000					UNIVERSAL AVERAGES
	MI/HR on Unit	95,500		90,500					
	Sample Date	12/6/2021		4/28/2021					
	Make Up Oil Added	2 qts		2.5 qt					
	ALUMINUM	5	5	5					4
	CHROMIUM	0	1	1					0
	IRON	6	7	7					9
	COPPER	1	2	2					5
	LEAD	0	1	1					2
	TIN	1	1	0					1
	MOLYBDENUM	150	150	150					91
	NICKEL	1	1	1					0
	MANGANESE	0	0	0					2
	SILVER	0	0	0					0
	TITANIUM	0	1	1					1
	POTASSIUM	1	2	2					2
	BORON	185	152	119					155
	SILICON	4	4	4					4
	SODIUM	4	6	7					5
	CALCIUM	2613	2449	2285					2712
	MAGNESIUM	52	114	176					31
	PHOSPHORUS	885	860	834					880
	ZINC	1020	984	947					986
	BARIUM	0	0	0					0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	63.8	65.78	68.5				
	cSt Viscosity @ 100°C	11.29	11.6-15.3	12.55				
	Flashpoint in °F	405	385	375				
	Fuel %	<0.5	<2.0	0.5				
	Antifreeze %	0.0	0.0	0.0				
	Water %	0.0	0.0	0.0				
	Insolubles %	0.2	0.6	0.2				
	TBN			3.3				
	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