



OIL REPORT

LAB NUMBER: D85180

UNIT ID: 06 VRSCR

REPORT DATE: 8/19/2009

CLIENT ID: 30491

CODE: 20/286

PAYMENT: Prepaid

UNIT	MAKE/MODEL: Harley Davidson 1130cc V-Rod	OIL TYPE & GRADE: Amsoil 20W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 11,005 Miles
	ADDITIONAL INFO:	

CLIENT	
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COMMENTS THOMAS: Fuel reduced to 2.0%, so it looks like much of the 3.8% was cooked out in the last 3,500 miles. 2.0% fuel is still more than we'd like to see ideally, but it is a vast improvement over levels we found previously. The fuel might have thinned the viscosity this time, but the engine might have sheared the viscosity down as well. Excess fuel and a sheared viscosity are common finds in bike engine samples to a certain extent. The low insolubles mean the oil filter is still effective and the 4.7 TBN is strong, so stay with this oil for another 2-3K miles. Looking good.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	11,005	UNIT / LOCATION AVERAGES	7,500	7,500	UNIVERSAL AVERAGES
	MI/HR on Unit	26,005		22,500	14,935	
	Sample Date	08/05/09		03/21/09	03/07/08	
	Make Up Oil Added	1 qt		0.5 qt	.5 qts	
ALUMINUM	32	40	25	64	17	
CHROMIUM	0	0	0	1	1	
IRON	17	15	12	16	9	
COPPER	14	12	11	12	5	
LEAD	5	4	4	4	8	
TIN	0	0	0	1	0	
MOLYBDENUM	43	28	38	3	18	
NICKEL	1	0	0	0	0	
MANGANESE	1	1	1	2	1	
SILVER	0	0	0	0	0	
TITANIUM	0	0	0	0	0	
POTASSIUM	4	3	3	3	1	
BORON	24	82	25	197	178	
SILICON	8	9	6	13	8	
SODIUM	5	5	4	5	3	
CALCIUM	2928	2178	2465	1140	1709	
MAGNESIUM	112	283	100	636	413	
PHOSPHORUS	1109	974	982	830	938	
ZINC	1387	1186	1168	1003	1098	
BARIUM	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	76.3	82-95	61.8	57.5
	cSt Viscosity @ 100°C	14.59	16.0-19.4	10.72	9.51
	Flashpoint in °F	345	>385	310	295
	Fuel %	2.0	<2.0	3.8	4.5
	Antifreeze %	0.0	0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0
	Insolubles %	0.3	<0.6	0.2	0.2
	TBN	4.7		5.6	4.2
	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