



# OIL REPORT

LAB NUMBER: F81923  
 REPORT DATE: 11/4/2013  
 CODE: 20/75

UNIT ID: 94 XT350  
 CLIENT ID: 41026  
 PAYMENT: CC: Visa

<b>UNIT</b>	MAKE/MODEL: Yamaha XT350	OIL TYPE & GRADE: Valvoline 10W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 561 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	RICHARD BESSEY	PHONE:
	133 WINNEBAGO	FAX:
	WALLA WALLA, WA 99362	ALT PHONE:
		EMAIL: richard@richardbessey.com

**COMMENTS** RICHARD: It looks like the short oil run last time was why that sample read much lower, since iron and copper shot back up this time. If we compare the wear rates of the February 2013 sample to this one, iron and copper didn't change much on a per mile basis (ppm/mile). That could be good news, showing steady wear, but it could also show a problem since you've noted a slipping gear in the past. The thicker viscosity isn't an issue, and no fuel or moisture contamination was found. Insolubles only read a trace, so the oil filter did a great job. Check back to monitor wear metals.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	561	<b>UNIT / LOCATION AVERAGES</b>	225	709	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	5,521		4,961	4,735	
	Sample Date	10/27/13		06/14/13	02/24/13	
	Make Up Oil Added	4 ozs		0 qts	0 qts	
ALUMINUM	17	31	9	67	13	
CHROMIUM	1	1	1	2	1	
IRON	39	32	13	44	11	
COPPER	15	14	4	22	6	
LEAD	2	1	1	1	2	
TIN	0	0	0	1	0	
MOLYBDENUM	1	1	1	1	33	
NICKEL	0	0	0	0	4	
MANGANESE	1	1	0	1	0	
SILVER	0	0	0	0	0	
TITANIUM	0	0	0	0	0	
POTASSIUM	6	8	10	7	2	
BORON	409	236	264	36	16	
SILICON	28	29	24	34	12	
SODIUM	612	339	399	5	12	
CALCIUM	2798	2667	2190	3014	2995	
MAGNESIUM	17	15	12	17	83	
PHOSPHORUS	1170	1053	1053	936	1118	
ZINC	1419	1294	1245	1217	1340	
BARIUM	0	0	0	0	0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	83.7	64-73	67.5	88.3
	cSt Viscosity @ 100°C	16.45	11.3-14.0	12.28	17.58
	Flashpoint in °F	440	>375	410	425
	Fuel %	<0.5	<2.0	<0.5	<0.5
	Antifreeze %	-	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0
	Insolubles %	TR	<0.6	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