



## OIL REPORT

LAB NUMBER: E81965

UNIT ID: 07 MUELL

REPORT DATE: 12/8/2011

CLIENT ID: 52180

CODE: 44/501

PAYMENT: Prepaid

UNIT	MAKE/MODEL: Buell XB12X	OIL TYPE & GRADE: Valvoline VR1 20W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,000 Miles
	ADDITIONAL INFO: 2007	

CLIENT	ARCINDO BENTO	PHONE: (201) 931-6903
	335 CENTRAL AVE.	FAX:
	HARRISON, NJ 07029	ALT PHONE:
		EMAIL: arcindobento@yahoo.com

COMMENTS	ARCINDO: Universal averages show typical wear levels for this type of engine after about 1,800 miles on the oil. The only metal on the high side is copper. Some of it might be from your longer oil run, but we can't say that for sure because copper doesn't usually track with time on the oil. It comes from brass/bronze parts like a bushing or oil cooler. This is only the first sample, so it's just something to watch for now. The other metals look great. The TBN was strong at 7.1 showing lots of active additive left; less than 1.0 is low. Check back for another look at copper.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	29,500							
	Sample Date	12/05/11	0 qts						
	Make Up Oil Added								
	ALUMINUM	3	3						4
	CHROMIUM	1	1						1
	IRON	12	12						11
	COPPER	56	56						29
	LEAD	7	7						3
	TIN	11	11						4
	MOLYBDENUM	6	6						55
	NICKEL	0	0						1
	MANGANESE	1	1						0
	SILVER	47	47						53
	TITANIUM	0	0						0
	POTASSIUM	0	0						2
	BORON	12	12						80
	SILICON	9	9						10
	SODIUM	509	509						106
	CALCIUM	2271	2271						2509
	MAGNESIUM	19	19						192
	PHOSPHORUS	1160	1160						1070
	ZINC	1327	1327						1349
	BARIUM	0	0						0

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	79.5	77-94					
	cSt Viscosity @ 100°C	15.39	14.8-19.2					
	Flashpoint in °F	420	>385					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.2	<0.6					
	TBN	7.1						
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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