



OIL REPORT

LAB NUMBER: D90968 UNIT ID: 09 KUBOTA L3940
 REPORT DATE: 10/13/2009 CLIENT ID: 22771
 CODE: 22/121 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Kubota V2003M	OIL TYPE & GRADE: Diesel Engine Oil
	FUEL TYPE: Diesel	OIL USE INTERVAL: 18 Hours
	ADDITIONAL INFO:	

CLIENT	PHILIP SEARCY	PHONE: (317) 339-2796
	3615 S FRANKLIN RD	FAX:
	INDIANAPOLIS, IN 46239	ALT PHONE: (317) 862-3688
		EMAIL: philips@gscompressors.com

COMMENTS PHILIP (amended report): The universal averages show normal wear for a completely mature (broken-in) Kubota diesel like yours after ~70 oil hours. This oil was in use for only 18.2 hours, so wear metals can be considered higher than average, but that's normal. The high metals are from new parts breaking-in. That's why it is a good idea to use short oil change intervals like this one to get all of those excess and abrasive metals out of the engine. The oil's TBN was strong at 14.4, showing loads of active additive. 1.0 is too low a reading. No contaminants found. Try ~30 hours.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	18	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	18						
	Sample Date	10/03/09						
	Make Up Oil Added	0 qts						
ALUMINUM	2	4					4	
CHROMIUM	0	0					2	
IRON	7	14					14	
COPPER	7	14					4	
LEAD	2	4					3	
TIN	0	0					1	
MOLYBDENUM	9	18					5	
NICKEL	0	0					0	
MANGANESE	1	2					0	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	2	4					2	
BORON	5	10					118	
SILICON	26	52					13	
SODIUM	3	6					26	
CALCIUM	4843	9686					2934	
MAGNESIUM	73	146					195	
PHOSPHORUS	1084	2168					993	
ZINC	1327	2654					1169	
BARIUM	3	6					1	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	59.9					
	cSt Viscosity @ 100°C	10.19					
	Flashpoint in °F	415	>415				
	Fuel %	TR	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.1	<0.6				
	TBN	14.4					
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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