

CONTAMINATION OIL CONDITION WEAR

NORMAL NORMAL

131 - Diesel Engine

Unit Make : CATERPILLAR

Unit Model : 385B Serial No : RED00208 Date Rec'd : Aug 22, 2006
Comp Make : BACKHOE EXCAVATOR Cust. Ref No. : {n/a} Sample Date : Aug 10, 2006
Comp Model : {n/a} Stub No. : KL-M090769 Diagnostician : Doug Bogart

Comp Model : $\{n/a\}$	Stub No.	: KL-M090769	D	iagnostici	an : Dou	g Bogart	
RECOMMENDATION		Sample Date	12/15/05	02/11/06	07/19/06	Current	UOM
Resample at the next service interval to monitor.		Time on Unit	3156	3267	4402	4572	hrs
		Time on Oil	250	361	244	414	hrs
		Time on Fltr	0	0	244	170	hrs
		Oil Maint.	n/a	n/a	not chg	not chg	
		Filter Maint.	n/a	not chg	changed	changed	
CONTAMINATION		Sample Date	12/15/05	02/11/06	07/19/06	Current	Abn
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.		Silicon	8.6	7.9	7.1	8.8	
		Fuel (%)	<2.0	<2.0	<2.0	<2.0	
uniouni uni ollo ol puriounico prosen	is in the system is deceptable.	Glycol					
		Water (%)	< 0.1	< 0.1	< 0.1	< 0.1	
		Soot (%)	0.1	0.1	0.1	0.1	
		>2µm	758	581	2782	556	
		>5µm	280	215	1029	205	
		>15µm	30	23	110	21	
		>25µm	7	5	26	5	
		>50µm	0	0	2	0	
		>100µm	0	0	0	0	
		ISO 4406	15/12	15/12	17/14	15/12	
OIL CONDITION		Sample Date	12/15/05	02/11/06	07/19/06	Current	Base
		Potassium	0.0	0.7	0.0	0.0	
Oil Type: SAE 15W40		Boron	2.5	2.3	5.3	4.3	
The condition of oil is suitable for furt	her service.	Barium	0.0	0.0	0.0	0.0	
		Calcium	3478	3702	3686	3482	
		Magnesium	8.5	10	6.8	12	
		Molybdenum	48			49	
		Sodium	1.5			1.9	
		Phosphorus	835				
		Sulfur	4571	4922		5195	
		Zinc	965			958	
		Visc@100°C	11.5			11.3	14.5
		TBN	8.82	8.99	8.96	6.05	
WEAR		Sample Date	12/15/05	02/11/06	07/19/06	Current	Abn
All component wear rates are normal.		Iron	12				
		Nickel	0.8				
		Chromium	0.5				
		Titanium	0.2				
		Copper	1.4	15	1.7	2.9	
		Aluminum	2.3	2.1	3.1	3.4	
		Alullillulli	2.5	2.1	5.1	5.1	
		Tin	0.0	0.8	0.0		
				0.8	0.0	0.0	