



MOBILE OIL ANALYSIS REPORT

CONTAMINATION
OIL CONDITION
WEAR

NORMAL
NORMAL
NORMAL

RIG #2 FLOOR MOTOR #2 - Diesel Engine

Unit Make : CATERPILLAR

Unit Model : 3406

Comp Make : {n/a}

Comp Model : {n/a}

Serial No : 90U8470

Cust. Ref No. : {n/a}

Stub No. : KL-M074429

Date Rec'd : May 6, 2005

Sample Date : Apr 18, 2005

Diagnostician : Doug Bogart

RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	02/04/05	03/02/05	03/28/05	Current	UOM
Time on Unit	7371	7873	8443	8881	hrs
Time on Oil	3500	4002	4572	5038	hrs
Time on Fltr	3500	4002	4572	5038	hrs
Oil Maint.	not chg	not chg	not chg	not chg	---
Filter Maint.	not chg	not chg	not chg	changed	---

CONTAMINATION

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Sample Date	02/04/05	03/02/05	03/28/05	Current	Abn
Silicon	6.1	6.2	5.4	5.7	
Fuel (%)	<2.0	<2.0	<2.0	<2.0	
Glycol	---	---	---	---	
Water (%)	<0.1	<0.1	<0.1	<0.1	
Soot (%)	0.4	0.4	0.2	0.2	
>2µm	3692	1694	2099	708	
>5µm	1365	626	776	261	
>15µm	146	67	83	27	
>25µm	35	16	19	6	
>50µm	3	1	1	0	
>100µm	0	0	0	0	
ISO 4406	18/14	16/13	17/14	15/12	

OIL CONDITION

Oil Type: 12 GAL of MOBIL HEAVY DUTY 40

The condition of oil is suitable for further service.

Sample Date	02/04/05	03/02/05	03/28/05	Current	Base
Potassium	0.0	6.1	5.7	0.0	
Boron	0.9	0.1	1.0	0.8	
Barium	0.0	0.3	0.0	0.0	
Calcium	3516	3230	3499	3278	
Magnesium	199	183	202	186	
Molybdenum	2.2	0.0	0.8	1.2	
Sodium	10	7.6	7.6	12	
Phosphorus	879	871	866	798	
Sulfur	7592	7288	7461	6820	
Zinc	859	831	913	872	
Visc@100°C	14.41	14.36	14.29	13.9	14.4
TBN	8.37	8.70	8.11	7.37	

WEAR

All component wear rates are normal.

Sample Date	02/04/05	03/02/05	03/28/05	Current	Abn
Iron	37	37	34	36	---
Nickel	0.4	0.4	0.0	0.8	---
Chromium	1.0	1.0	1.1	1.2	---
Titanium	0.2	0.3	0.2	0.3	---
Copper	182	155	136	120	---
Aluminum	2.0	2.6	2.9	2.7	---
Tin	0.0	0.0	0.0	0.0	---
Lead	0.9	2.9	2.1	1.4	---
Silver	0.0	0.0	0.1	0.0	---