



# WEAR CHECK

## MOBILE OIL ANALYSIS REPORT

CONTAMINATION  
OIL CONDITION  
WEAR

**NORMAL**  
**NORMAL**  
**NORMAL**

### Langston Drilling - RIG 12 FLOOR #1

Unit Make : CATERPILLAR

Unit Model : 3408

Comp Make : {n/a}

Comp Model : {n/a}

Serial No : {n/a}

Cust. Ref No. : {n/a}

Stub No. : KL-MF003738

Date Rec'd : Jan 24, 2008

Sample Date : Jan 17, 2008

Diagnostician : Jonathan Hester

#### RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	02/15/07	03/29/07	12/13/07	Current	UOM
Time on Unit	0	0	0	0	hrs
Time on Oil	600	1200	504	1096	hrs
Time on Fltr	600	1200	504	1096	hrs
Oil Maint.	changed	changed	not chg	n/a	---
Filter Maint.	changed	changed	not chg	n/a	---

#### CONTAMINATION

There is no indication of any contamination in the component.

Sample Date	02/15/07	03/29/07	12/13/07	Current	Abn
Silicon	5.2	4.9	3.5	0.0	
Fuel (%)	<2.0	<2.0	<2.0	<2.0	
Glycol	---	---	---	---	
Water (%)	<0.1	<0.1	<0.1	<0.1	
Soot (%)	0.1	0.4	0.6	1.2	
>2µm	1770	4198	---	---	
>5µm	654	1553	---	---	
>15µm	70	166	---	---	
>25µm	16	39	---	---	
>50µm	1	3	---	---	
>100µm	0	0	---	---	
ISO 4406	17/13	18/15	---	---	

#### OIL CONDITION

Oil Type: 11 GAL of CHEVRON 15W40

The condition of oil is suitable for further service.

Sample Date	02/15/07	03/29/07	12/13/07	Current	Base
Potassium	0.0	0.0	0.7	0.0	
Boron	7.5	9.1	3.5	0.0	
Barium	0.0	0.0	0.0	0.0	
Calcium	627	381	3177	3317	
Magnesium	940	887	19	8.2	
Molybdenum	3.1	0.0	1.5	0.0	
Sodium	6.9	7.6	2.2	0.0	
Phosphorus	759	712	1178	1186	
Sulfur	6820	5897	5183	5453	
Zinc	969	820	1275	1314	
Visc@100°C	15.4	15.68	13.8	14.2	14.4
TBN	4.51	4.03	9.33	9.69	

#### WEAR

All component wear rates are normal.

Sample Date	02/15/07	03/29/07	12/13/07	Current	Abn
Iron	57	57	11	16	---
Nickel	0.7	1.1	0.0	0.0	---
Chromium	1.9	3.3	1.4	0.0	---
Titanium	0.0	0.0	0.2	0.0	---
Copper	60	42	1.5	0.0	---
Aluminum	4.9	4.9	3.4	0.0	---
Tin	0.0	0.0	0.0	0.0	---
Lead	5.0	1.5	0.7	0.0	---
Silver	0.0	0.0	0.2	0.0	---