



# MOBILE OIL ANALYSIS REPORT

CONTAMINATION  
OIL CONDITION  
WEAR

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

## RIG 6 #1 GEN MOTOR - Front Diesel Engine

Unit Make : CATERPILLAR

Unit Model : C-15

Comp Make : {n/a}

Comp Model : {n/a}

Serial No : FSE00830

Cust. Ref No. : {n/a}

Stub No. : KL-M2301290

Date Rec'd : Jan 25, 2012

Sample Date : Jan 7, 2012

Diagnostician : Jonathan Hester

### RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	10/16/11	11/20/11	Current	UOM
Time on Unit	14868	15336	15847	hrs
Time on Oil	1561	2029	505	hrs
Time on Fltr	1561	468	505	hrs
Oil Maint.	not chg	changed	not chg	---
Filter Maint.	not chg	changed	not chg	---

### 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	10/16/11	11/20/11	Current	Abn
Silicon	4.8	16	17	25
Fuel (%)	<2.0	<2.0	<2.0	5
Glycol	---	---	---	0.06
Water (%)	<0.1	<0.1	<0.1	0.1
Soot (%)	1.9	1.7	1.3	3
>4µm(c)	487	474	1474	---
>6µm(c)	265	258	803	---
>14µm(c)	45	44	136	---
>21µm(c)	15	14	46	---
>38µm(c)	2	2	7	---
>70µm(c)	0	0	0	---
ISO 4406(c)	15/13	15/13	17/14	---

### OIL CONDITION

Oil Type: 18 GAL of MOBIL HEAVY DUTY 40

The condition of oil is suitable for further service.

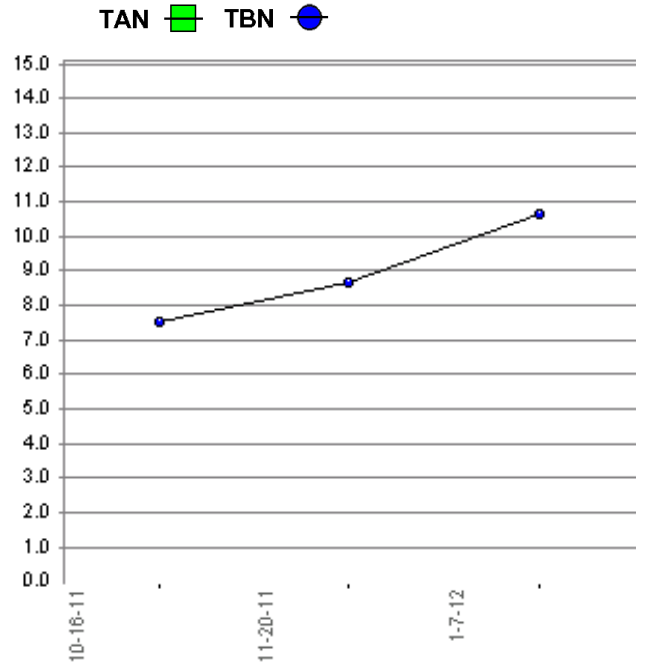
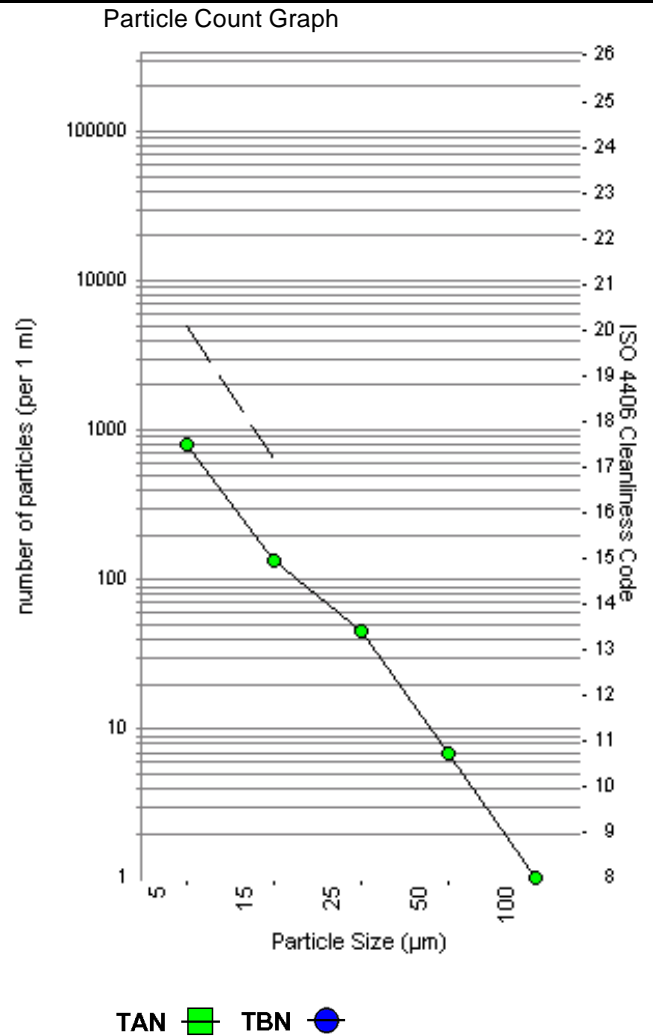
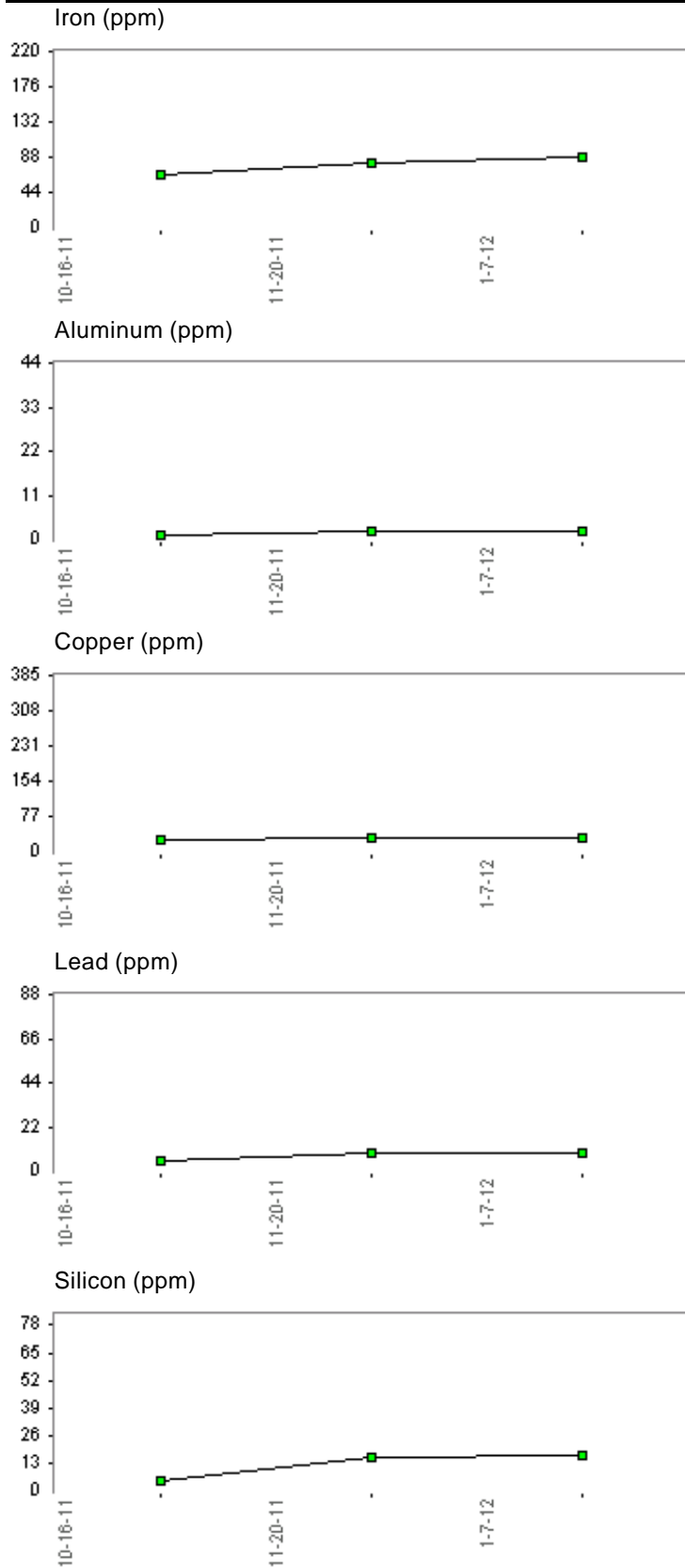
Sample Date	10/16/11	11/20/11	Current	Base
Potassium	0.9	4.4	0.0	---
Boron	20	22	25	---
Barium	0.0	0.0	0.0	---
Calcium	2110	2740	2865	---
Magnesium	415	522	564	---
Molybdenum	40	46	49	---
Sodium	2.2	3.4	3.2	---
Phosphorus	986	1148	1229	---
Sulfur	3496	4148	4909	---
Zinc	1116	1388	1406	---
Visc@100°C	16.28	16.19	16.09	14.4
TBN	7.52	8.67	10.7	---

### WEAR

All component wear rates are normal.

Sample Date	10/16/11	11/20/11	Current	Abn
PQ	---	---	---	---
Iron	68	83	89	100
Nickel	2.5	3.4	4.2	2
Chromium	1.6	2.1	2.2	20
Titanium	0.0	0.5	0.4	2
Copper	29	32	32	330
Aluminum	1.4	2.1	2.2	25
Tin	0.8	0.0	0.0	15
Lead	5.5	9.2	9.5	40

# Graphs



If you have any questions concerning this sample report (work order no 03002233 ) please call 1-800-237-1369.



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