



# MOBILE OIL ANALYSIS REPORT

CONTAMINATION	<b>NORMAL</b>
OIL CONDITION	<b>NORMAL</b>
WEAR	<b>NORMAL</b>

## [R10] R10-F-02 - Diesel Engine

Unit Make : CATERPILLAR  
 Unit Model : C-18  
 Comp Make : {n/a}  
 Comp Model : {n/a}

Serial No : WJH01503  
 Cust. Ref No. : {n/a}  
 Stub No. : KL-M2304750

Date Rec'd : Apr 6, 2012  
 Sample Date : Mar 29, 2012  
 Diagnostician : Jonathan Hester

### RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	12/14/11	02/01/12	02/23/12	Current	UOM
Time on Unit	26057	27962	27655	26057	hrs
Time on Oil	0	1905	1598	2264	hrs
Time on Fltr	0	1905	1598	2264	hrs
Oil Maint.	changed	not chg	not chg	changed	---
Filter Maint.	changed	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	12/14/11	02/01/12	02/23/12	Current	Abn
Silicon	3.8	3.3	3.8	3.2	25
Fuel (%)	<2.0	<2.0	<2.0	<2.0	5
Glycol	---	---	---	---	0.06
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
Soot (%)	0.2	0.1	0.1	0.1	3
>4µm(c)	2525	743	2871	653	---
>6µm(c)	1375	405	1564	356	---
>14µm(c)	234	69	266	60	---
>21µm(c)	79	23	89	20	---
>38µm(c)	12	3	13	3	---
>70µm(c)	1	0	1	0	---
ISO 4406(c)	18/15	16/13	18/15	16/13	---

### OIL CONDITION

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

The condition of oil is suitable for further service.

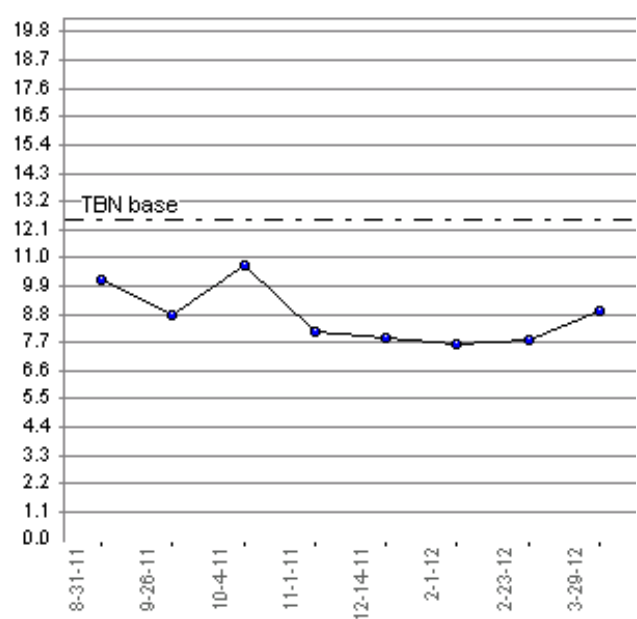
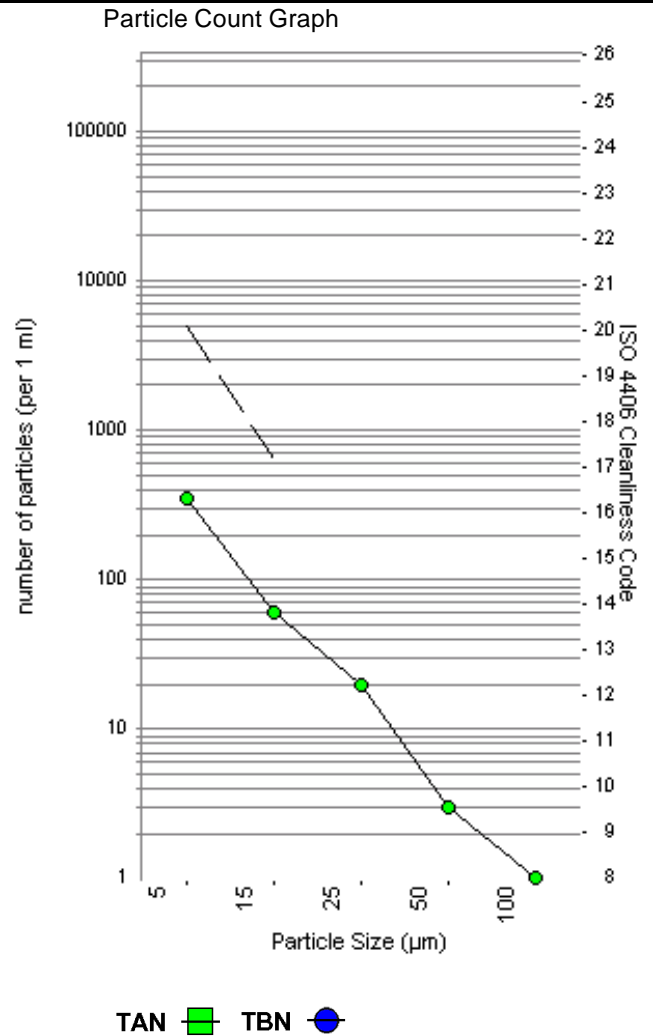
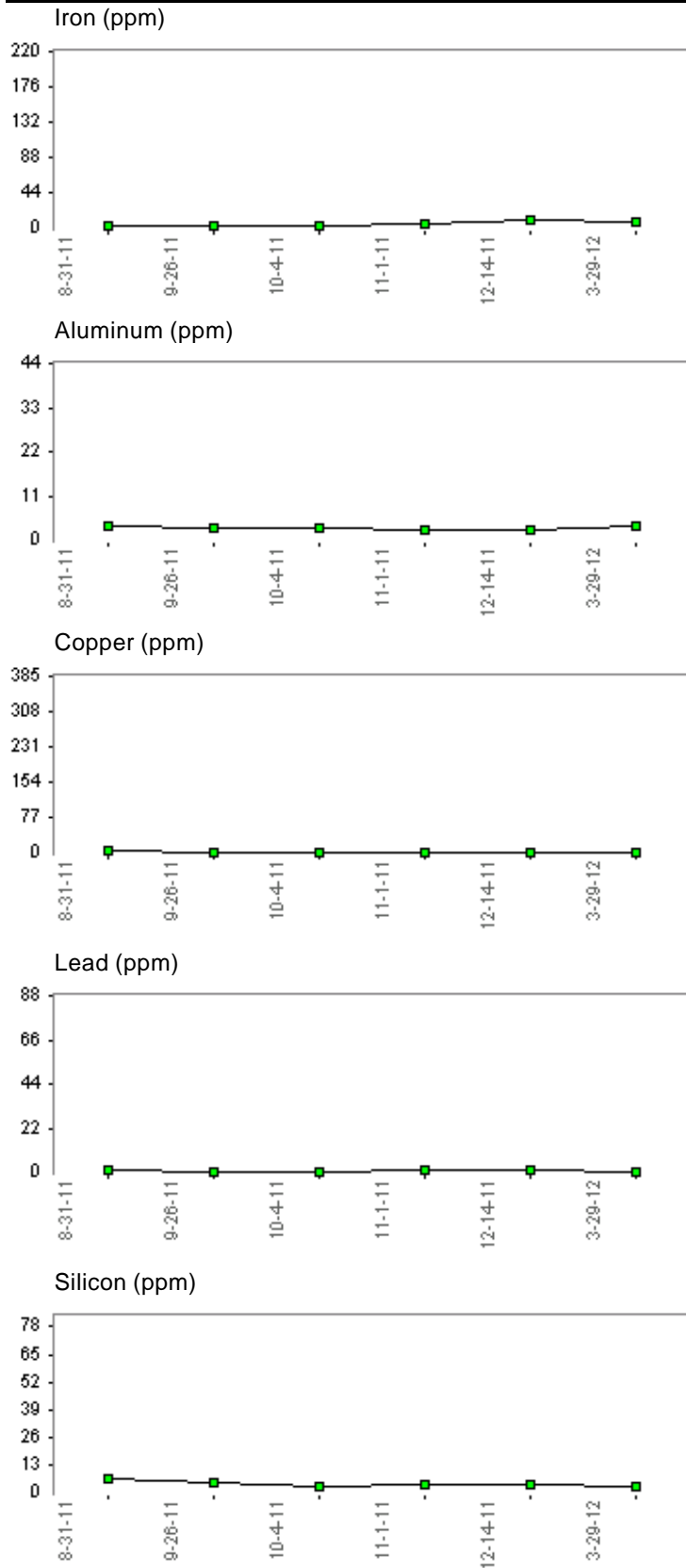
Sample Date	12/14/11	02/01/12	02/23/12	Current	Base
Potassium	0.0	3.7	2.4	1.2	5.4
Boron	349	439	424	407	151
Barium	0.0	0.0	0.5	0.0	0.4
Calcium	1872	1577	1550	1514	2046
Magnesium	402	382	375	367	0
Molybdenum	78	86	90	82	250
Sodium	0.8	1.1	0.8	1.2	0.0
Phosphorus	1202	1099	1068	1127	1043
Sulfur	3209	2942	2963	2884	5012
Zinc	1298	1219	1202	1217	943
Visc@100°C	13.04	13.66	13.71	13.29	14.4
TBN	7.88	7.64	7.79	8.91	12.5

### WEAR

All component wear rates are normal.

Sample Date	12/14/11	02/01/12	02/23/12	Current	Abn
PQ	---	---	---	---	---
Iron	11	5.3	7.6	9.2	100
Nickel	0.2	0.3	0.1	0.3	2
Chromium	0.0	0.2	0.3	0.1	20
Titanium	0.2	0.0	0.0	0.0	2
Copper	4.2	1.5	2.2	2.7	330
Aluminum	2.7	3.0	3.3	3.6	25
Tin	0.0	0.0	0.3	0.3	15
Lead	1.5	0.2	0.0	0.3	40

# Graphs



If you have any questions concerning this sample report (work order no 03047765 ) please call 1-800-237-1369.



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