



## Review Reports

### MOB 1 Sample Report

Test kit used



CONTAMINATION  
WEAR  
OIL CONDITION

**SEVERE**  
**NORMAL**  
**ATTENTION**

Quick Sample Status

Unit Identification

#### Unit Information

Including make, model, s/n

Unit Make : 1998 Freightliner  
Unit Model : FL112 DC  
Comp Make : Caterpillar  
Comp Model : C-10  
Serial No : 8YS00615  
Cust. Ref No. : (n/a)  
Stub No. : WC-0082760  
Date Rec'd : Jan 23, 2001  
Sample Date : Jan 21, 2001  
Diagnostician : D Mufti

#### Recommendation

Summary and any necessary corrective actions required.

#### RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend an early resample to monitor this condition.

Sample Date	2/17/00	6/14/00	9/11/00	Current	UOM
Time on Unit	248312	289941	319232	358872	mls
Time on Oil	16252	14713	0	12972	mls
Time on Ftr	16252	14713	0	12972	mls
Oil Maint.	Changed	Changed	N/A	Changed	---
Filter Maint.	Changed	Changed	N/A	Changed	---

#### Contamination

Dirt, Water, Soot, Fuel, Glycol, IR data Identifies any abnormal contaminants present in the oil.

#### CONTAMINATION

Test for glycol is positive. There is a high concentration of glycol present in the oil.

Sample Date	2/17/00	6/14/00	9/11/00	Current	Abn
Silicon	5.1	2.7	5.9	25	15
Potassium	0.0	0.0	13	89	10
Sodium	9.9	25	86	650	50
Fuel (%)	<2.0	<2.0	<2.0	<2.0	2.0
Glycol (%)	<0.02	0.0	0.0	0.12	0.02
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
Soot (%)	0.3	0.6	1.5	0	2.0
Sulfation	62	62	74	32	100
Nitration	55	55	64	27	100

Sample Information

Sample, Recieved Date  
Sample Number

Maintenance Info

Time on oil, filter, component  
Maintenance actions

Abnormal Limits

#### Wear

Wear metals in parts per million (ppm) Determines if equipment is wearing Abnormally.

#### WEAR

All component wear rates are normal.

Sample Date	2/17/00	6/14/00	9/11/00	Current	Abn
Iron	30	49	122	72	---
Nickel	0.0	0.0	0.0	0.0	---
Chromium	0.9	0.5	2.0	2.3	---
Titanium	0.0	0.0	0.0	0.5	---
Copper	8.8	2.1	4.7	12	---
Aluminum	1.2	0.0	3.8	5.6	---
Tin	0.0	0.0	0.0	0.0	---
Lead	0.5	0.0	0.0	2.3	---
Silver	0.3	0.0	0.2	1.0	---

New oil baseline

#### Oil Condition

Oil additive levels in ppm Viscosity @ 100°C

\*On MOB 2 Total Base Number (BN) Determines if oil is suitable for continued use.

#### OIL CONDITION

Oil Type: PETRO CANADA SUPER PLUS 15W40  
The oil is no longer serviceable due to the presence of contaminants.

Sample Date	2/17/00	6/14/00	9/11/00	Current	Base
Boron	4.3	7.9	9.0	39	1
Barium	0.1	0.3	0.5	0.7	<1
Calcium	2822	3158	3386	3974	1510
Magnesium	15	16	13	16	470
Molybdenum	0.7	1.1	1.8	2.4	<1
Sodium	9.9	25	86	650	2.0
Phosphorus	966	1016	1225	1355	1110
Sulfur	3334	4456	4904	4943	3700
Zinc	1236	1281	1397	1649	1240
Visc@40°C	---	---	---	---	117.4
Visc@100°C	14.3	14.4	14.6	13.9	15.5
Oxidation	59	55	55	17	---

Report Identification

Report ID CUSANY [WCALAB] 00123456 - Pg. 1

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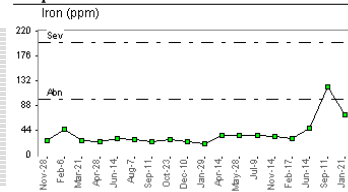
# Review Reports

## MOB 1 Sample Report (back)

### Iron Graph

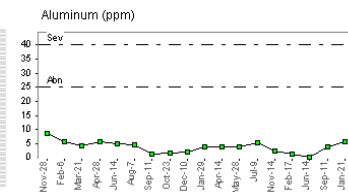
Trend of the iron level of the component showing both the abnormal and severe limits.

#### Graphs



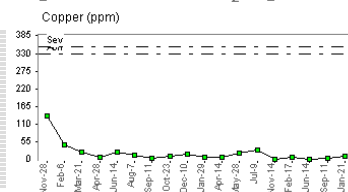
### Aluminum Graph

Trend of the aluminum level of the component showing both the abnormal and severe limits.



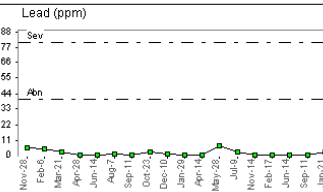
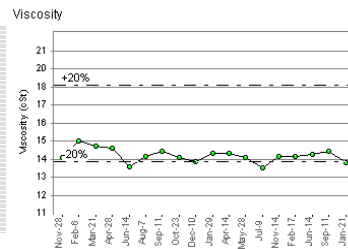
### Copper Graph

Trend of the copper level of the component showing both the abnormal and severe limits.



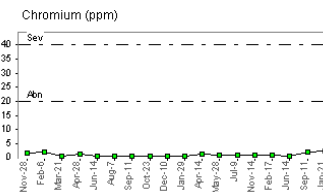
### Viscosity Graph

Trend of the viscosity in cSt showing both upper and lower limits.



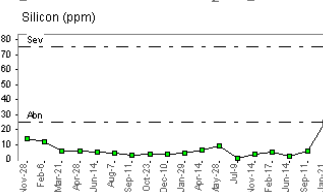
### Lead Graph

Trend of the lead level of the component showing both the abnormal and severe limits.



### Chromium Graph

Trend of the chromium level of the component showing both the abnormal and severe limits.



### Silicon Graph

Trend of the silicon level of the component showing both the abnormal and severe limits.

#### Report Legend

Abn	Represents the general abnormal limit for the test result.
Base	Represents the test result values from a sample of the new unused oil.
Current	Represents data for the current sample submitted.
>	Greater than
<	Less than
---	Data value unavailable.

### Report Legend

Shows common terms and abbreviations used on the sample report.

If you have any questions concerning this sample report (work order no 00845351) please call 1-800-268-2131.



ATTN: JOHN DOE  
ABC MANUFACTURING LTD.  
123 INDUSTRIAL DRIVE  
STEELTOWN, NY 10023  
(212)555-1234  
FAX (212)555-2345

Customer contact info