



MOBILE OIL ANALYSIS REPORT

CONTAMINATION
OIL CONDITION
WEAR

NORMAL
NORMAL
NORMAL

305 - Front Right Diesel Engine

Unit Make : 04 FREIGHTLINER

Unit Model : M-2

Comp Make : CATERPILLAR

Comp Model : C-7

Serial No : 1FVAC7DC07HX70097

Cust. Ref No. : {n/a}

Stub No. : KL-MF006415

Date Rec'd : Jan 24, 2012

Sample Date : Jan 17, 2012

Diagnostician : Don Baldrige

RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	04/19/11	07/14/11	10/12/11	Current	UOM
Time on Unit	5913	6275	6605	6927	hrs
Time on Oil	269	631	961	1283	hrs
Time on Fltr	269	362	330	322	hrs
Oil Maint.	not chg	not chg	not chg	changed	---
Filter Maint.	changed	changed	changed	changed	---

CONTAMINATION

There is no indication of any contamination in the component.

Sample Date	04/19/11	07/14/11	10/12/11	Current	Abn
Silicon	2.1	4.8	5.9	5.5	15
Fuel (%)	<2.0	<2.0	<2.0	<2.0	---
Glycol	---	---	---	---	0.02
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
Soot (%)	0.2	0.2	0.3	0.4	---
>4µm(c)	---	---	---	---	---
>6µm(c)	---	---	---	---	---
>14µm(c)	---	---	---	---	---
>21µm(c)	---	---	---	---	---
>38µm(c)	---	---	---	---	---
>70µm(c)	---	---	---	---	---
ISO 4406(c)	---	---	---	---	---

OIL CONDITION

Oil Type: 10 GAL of (GENERIC) SAE 15W40

The condition of oil is suitable for further service.

Sample Date	04/19/11	07/14/11	10/12/11	Current	Base
Potassium	2.9	0.0	0.0	2.3	
Boron	21	22	18	19	
Barium	0.1	0.0	0.0	0.0	
Calcium	2305	2130	2636	2443	
Magnesium	11	7.4	8.1	7.1	
Molybdenum	0.3	0.0	1.6	0.7	
Sodium	0.8	0.6	1.4	1.5	
Phosphorus	933	951	1076	963	
Sulfur	4769	3844	4242	3979	
Zinc	1107	1028	1186	1140	
Visc@100°C	13.81	14.26	13.94	14.23	14.5
TBN	9.97	9.35	8.0	7.21	

WEAR

All component wear rates are normal.

Sample Date	04/19/11	07/14/11	10/12/11	Current	Abn
PQ	---	---	---	---	---
Iron	14	24	36	43	---
Nickel	0.0	0.0	0.0	0.1	---
Chromium	0.9	1.5	2.2	2.3	---
Titanium	0.0	0.3	0.4	0.0	---
Copper	0.5	1.1	2.0	2.8	---
Aluminum	1.0	1.5	1.7	1.9	---
Tin	0.2	0.0	0.0	0.4	---
Lead	1.6	3.3	3.1	3.9	---