



MOBILE OIL ANALYSIS REPORT

CONTAMINATION
OIL CONDITION
WEAR

NORMAL
NORMAL
NORMAL

3065 - Front Diesel Engine

Unit Make : FREIGHTLINER

Unit Model : {n/a}

Comp Make : MERCEDES

Comp Model : {n/a}

Serial No : {n/a}

Cust. Ref No. : {n/a}

Stub No. : KL-MFA03232

Date Rec'd : May 30, 2012

Sample Date : Mar 9, 2012

Diagnostician : Don Baldrige

RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	04/01/11	06/06/11	09/06/11	Current	UOM
Time on Unit	500	1000	1500	1500	hrs
Time on Oil	500	1000	0	0	hrs
Time on Fltr	500	500	0	0	hrs
Oil Maint.	not chg	not chg	n/a	n/a	---
Filter Maint.	changed	changed	n/a	n/a	---

CONTAMINATION

There is no indication of any contamination in the component.

Sample Date	04/01/11	06/06/11	09/06/11	Current	Abn
Silicon	3.7	3.5	4.7	4.7	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 (%)	1	1.6	1.2	0.5	---
>4µm(c)	---	---	---	---	---
>6µm(c)	---	---	---	---	---
>14µm(c)	---	---	---	---	---
>21µm(c)	---	---	---	---	---
>38µm(c)	---	---	---	---	---
>70µm(c)	---	---	---	---	---
ISO 4406(c)	---	---	---	---	---

OIL CONDITION

Oil Type: 24 QTS of SHELL ROTELLA T 15W40

The condition of oil is suitable for further service.

Sample Date	04/01/11	06/06/11	09/06/11	Current	Base
Potassium	3.0	3.1	0.9	0.0	0.0
Boron	57	41	30	26	316
Barium	0.0	0.0	0.0	0.0	0.0
Calcium	2005	2020	2122	2490	2292
Magnesium	61	55	44	14	24
Molybdenum	13	12	11	1.7	1.2
Sodium	0.4	0.5	0.9	1.2	2.4
Phosphorus	883	760	958	1138	1064
Sulfur	3179	3015	3244	4049	4996
Zinc	999	1005	1046	1180	1160
Visc@100°C	13.75	15.43	14.8	14.7	14.3
TBN	9.48	8.28	7.33	10.63	8.5

WEAR

All component wear rates are normal.

Sample Date	04/01/11	06/06/11	09/06/11	Current	Abn
PQ	---	---	---	---	---
Iron	23	28	36	18	---
Nickel	0.2	0.3	0.0	0.3	---
Chromium	0.6	0.7	0.9	0.5	---
Titanium	0.0	0.0	0.3	0.3	---
Copper	1.7	3.1	2.6	0.9	---
Aluminum	2.8	2.7	2.6	2.2	---
Tin	0.4	0.5	0.0	0.0	---
Lead	1.4	1.7	2.6	1.3	---