**MOBILE OIL ANALYSIS REPORT**

**Unit Make**: FREIGHTLINER  
**Unit Model**: (n/a)  
**Serial No**: (n/a)  
**Date Rec’d**: May 30, 2012  
**Comp Make**: MERCEDES  
**Comp Model**: (n/a)  
**Cust. Ref No.**: (n/a)  
**Sample Date**: Mar 9, 2012  
**Serial No**: KL-MFA03232  
**Diagnositcian**: Don Baldridge

### RECOMMENDATION

Resample at the next service interval to monitor.

### CONTAMINATION

There is no indication of any contamination in the component.

### OIL CONDITION

Oil Type: 24 QTS of SHELL ROTELLA T 15W40  
The condition of oil is suitable for further service.

### WEAR

All component wear rates are normal.

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**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 | ---  

**Sample Date**  | **04/01/11** | **06/06/11** | **09/06/11** | **Current** | **Abn**  
--- | --- | --- | --- | --- | ---  
**Silicon**  | 3.7 | 3.5 | 4.7 | 4.7 | 0.15  
**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 | 1.5 | ---  
**>4µm(c)**  | --- | --- | --- | --- | ---  
**>6µm(c)**  | --- | --- | --- | --- | ---  
**>14µm(c)**  | --- | --- | --- | --- | ---  
**>21µm(c)**  | --- | --- | --- | --- | ---  
**>38µm(c)**  | --- | --- | --- | --- | ---  
**>70µm(c)**  | --- | --- | --- | --- | ---  
**ISO 4406(c)**  | --- | --- | --- | --- | ---  

**Sample Date**  | **04/01/11** | **06/06/11** | **09/06/11** | **Current** | **Base**  
--- | --- | --- | --- | --- | ---  
**Potassium**  | 3.0 | 3.1 | 0.9 | 0.9 | 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 | 17 | 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

**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 | 1.9 | ---  
**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 | ---  

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