Mobile Oil Analysis Report

[Trucks] 1689 - Diesel Engine

**Unit Make:** PETERBILT  
**Unit Model:** (n/a)  
**Comp Make:** CATEPILLAR  
**Comp Model:** C-15  
**Serial No.:** (n/a)  
**Cust. Ref No.:** (n/a)  
**Stub No.:** KL-MFA04657  
**Date Rec’d:** Mar 8, 2012  
**Sample Date:** Mar 2, 2012  
**Diagnositician:** 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:** (GENERIC) SAE 15W40  
The condition of oil is suitable for further service.

### WEAR

All component wear rates are normal.

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**Sample Date** | 09/14/11 | 12/16/11 | Current | UOM  
**Time on Unit** | 23043 | 11264 | 11967.5 | hrs  
**Time on Oil** | 0 | 0 | 1500 | hrs  
**Time on Fltr** | 0 | 0 | 1000 | hrs  
**Oil Maint.** | n/a | n/a | changed | ---  
**Filter Maint.** | n/a | changed | changed | ---  

**Sample Date** | 09/14/11 | 12/16/11 | Current | Abn  
**Silicon** | 5.3 | 6.5 | 7.4 | 15  
**Fuel (%)** | <2.0 | <2.0 | <2.0 | ---  
**Glycol** | --- | --- | 0.02 | ---  
**Water (%)** | <0.1 | <0.1 | <0.1 | 0.1  
**Soot (%)** | 0 | 0.1 | 0.2 | ---  
**>4µm(c)** | --- | --- | --- | ---  
**>6µm(c)** | --- | --- | --- | ---  
**>14µm(c)** | --- | --- | --- | ---  
**>21µm(c)** | --- | --- | --- | ---  
**>38µm(c)** | --- | --- | --- | ---  
**>70µm(c)** | --- | --- | --- | ---  
**ISO 4406(c)** | --- | --- | --- | ---

**Sample Date** | 09/14/11 | 12/16/11 | Current | Base  
**Potassium** | 4.7 | 0.0 | 4.8 | ---  
**Boron** | 435 | 316 | 285 | ---  
**Barium** | 0.0 | 0.1 | 0.0 | ---  
**Calcium** | 1609 | 1524 | 1729 | ---  
**Magnesium** | 404 | 370 | 422 | ---  
**Molybdenum** | 76 | 83 | 88 | ---  
**Sodium** | 1.9 | 1.9 | 2.1 | ---  
**Phosphorus** | 1071 | 1059 | 1186 | ---  
**Sulfur** | 3361 | 3325 | 3210 | ---  
**Zinc** | 1127 | 1172 | 1300 | ---  
**Visc@100°C** | 15.78 | 13.77 | 13.93 | 14.5  
**TBN** | 8.35 | 8.24 | 7.86 | ---

**Sample Date** | 09/14/11 | 12/16/11 | Current | Abn  
**PQ** | --- | --- | --- | ---  
**Iron** | 6.9 | 36 | 53 | ---  
**Nickel** | 0.0 | 0.4 | 0.0 | ---  
**Chromium** | 0.2 | 1.1 | 1.2 | ---  
**Titanium** | 0.1 | 0.2 | 0.0 | ---  
**Copper** | 0.8 | 4.3 | 5.9 | ---  
**Aluminum** | 2.7 | 3.7 | 6.2 | ---  
**Tin** | 0.0 | 0.0 | 0.0 | ---  
**Lead** | 0.0 | 0.8 | 1.2 | ---  

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