# MOBILE OIL ANALYSIS REPORT

## 305 - Front Right Diesel Engine

### Unit Information
- **Make**: 04 FREIGHTLINER
- **Model**: M-2
- **Serial No**: 1FVAC7DC07HX70097
- **Date Rec'd**: Jan 24, 2012
- **Cust. Ref No**: {n/a}
- **Sample Date**: Jan 17, 2012
- **Unit Make**: 04 FREIGHTLINER
- **Unit Model**: M-2
- **Serial No**: 1FVAC7DC07HX70097
- **Sample Date**: Jan 17, 2012
- **Comp Make**: CATERPILLAR
- **Comp Model**: C-7
- **Serial No**: KL-MF006415
- **Diagnostician**: Don Baldridge

## RECOMMENDATION
Resample at the next service interval to monitor.

## CONTAMINATION
There is no indication of any contamination in the component.

### Sample Dates
- **04/19/11**: 04/19/11, 07/14/11, 10/12/11
- **Current**: 04/19/11, 07/14/11, 10/12/11
- **Abn**: 04/19/11, 07/14/11, 10/12/11

### Contamination Parameters
- **Silicon**: 2.1, 4.8, 5.9, 5.5
- **Fuel (%)**: <2.0, <2.0, <2.0, <2.0
- **Water (%)**: <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.

### Oil Parameters
- **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
- **TBN**: 14.5
- **NO.3**: 9.97, 9.35, 8.0, 7.21

## WEAR
All component wear rates are normal.

### Wear Parameters
- **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, 0.1
- **Lead**: 1.6, 3.3, 3.1, 3.9

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