



# MOBILE OIL ANALYSIS REPORT

CONTAMINATION  
OIL CONDITION  
WEAR

**NORMAL**  
**NORMAL**  
**NORMAL**

## C-12 - Front Diesel Engine

Unit Make : PETERBILT

Unit Model : 357

Comp Make : CUMMINS

Comp Model : ISM

Serial No : D827630

Cust. Ref No. : {n/a}

Stub No. : KL-MF008244

Date Rec'd : Jun 16, 2011

Sample Date : Jun 6, 2011

Diagnostician : Don Baldrige

### RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	07/06/10	09/23/10	02/07/11	Current	UOM
Time on Unit	11522	11991	12448	13079	hrs
Time on Oil	442	911	1368	1557	hrs
Time on Fltr	442	911	1368	1557	hrs
Oil Maint.	changed	not chg	not chg	changed	---
Filter Maint.	changed	not chg	not chg	changed	---

### CONTAMINATION

There is no indication of any contamination in the component.

Sample Date	07/06/10	09/23/10	02/07/11	Current	Abn
Silicon	7.1	7.9	9.2	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 (%)	0.1	0.2	0.5	0.6	---
>4µm(c)	---	---	---	---	---
>6µm(c)	---	---	---	---	---
>14µm(c)	---	---	---	---	---
>21µm(c)	---	---	---	---	---
>38µm(c)	---	---	---	---	---
>70µm(c)	---	---	---	---	---
ISO 4406(c)	---	---	---	---	---

### OIL CONDITION

Oil Type: 12 GAL of SHELL ROTELLA T 15W40

The condition of oil is suitable for further service.

Sample Date	07/06/10	09/23/10	02/07/11	Current	Base
Potassium	3.5	3.3	0.0	3.2	0.0
Boron	3.7	9.2	12	12	316
Barium	0.3	4.2	8.3	4.1	0.0
Calcium	3694	2634	3049	2501	2292
Magnesium	9.6	246	447	276	24
Molybdenum	3.0	10	19	12	1.2
Sodium	1.8	2.5	3.3	2.9	2.4
Phosphorus	1171	1031	1186	938	1064
Sulfur	5736	4554	4881	3877	4996
Zinc	1284	1172	1315	1128	1160
Visc@100°C	13.78	14.11	13.59	13.73	14.3
TBN	9.52	7.54	7.30	7.25	8.5

### WEAR

All component wear rates are normal.

Sample Date	07/06/10	09/23/10	02/07/11	Current	Abn
PQ	---	---	---	---	---
Iron	22	28	51	55	---
Nickel	0.0	0.2	0.2	0.2	---
Chromium	1.9	1.6	2.6	2.3	---
Titanium	0.7	0.2	1.2	0.0	---
Copper	3.9	5.3	19	20	---
Aluminum	4.0	2.7	3.3	2.5	---
Tin	0.9	2.2	0.0	2.7	---
Lead	4.2	4.6	6.5	6.2	---