



MOBILE OIL ANALYSIS REPORT

CONTAMINATION
OIL CONDITION
WEAR**NORMAL**
NORMAL
ABNORMAL

355 - Diesel Engine

Unit Make : FREIGHTLINER

Unit Model : FLD120

Comp Make : DETROIT

Comp Model : SERIES 60

Serial No : 1FUYPDSEB1TH776052

Cust. Ref No. : {n/a}

Stub No. : KL-M083240

Date Rec'd : Mar 24, 2005

Sample Date : Mar 8, 2005

Diagnostician : Keith Scott

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Sample Date	01/23/05	03/04/05	Current	UOM
Time on Unit	593553	114587	1219648	mls
Time on Oil	60000	15123	75000	mls
Time on Fltr	15000	15123	75000	mls
Oil Maint.	not chg	n/a	n/a	---
Filter Maint.	not chg	n/a	n/a	---

CONTAMINATION

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Sample Date	01/23/05	03/04/05	Current	Abn
Silicon	7.5	0.0	7.0	
Fuel (%)	<2.0	<2.0	<2.0	
Glycol	---	---	---	
Water (%)	<0.1	<0.1	<0.1	
Soot (%)	1.5	0.4	1.2	
>2µm	6019	1492	859	
>5µm	2226	551	318	
>15µm	238	59	34	
>25µm	57	14	8	
>50µm	5	1	0	
>100µm	0	0	0	
ISO 4406	18/15	16/13	15/12	

OIL CONDITION

The condition of oil is suitable for further service.

Sample Date	01/23/05	03/04/05	Current	Base
Potassium	0.0	3.6	0.0	
Boron	22	26	26	
Barium	0.0	0.0	0.1	
Calcium	3420	2712	2980	
Magnesium	322	424	342	
Molybdenum	29	42	31	
Sodium	15	1.5	11	
Phosphorus	1426	1210	1362	
Sulfur	5600	5032	4982	
Zinc	1474	1274	1387	
Visc@100°C	16.48	18.13	16.24	
TBN	5.09	7.64	5.41	

WEAR

The lead level is abnormal. All other component wear rates are normal.

Sample Date	01/23/05	03/04/05	Current	Abn
Iron	126	25	103	---
Nickel	0.8	0.3	0.9	---
Chromium	2.7	1.2	2.3	---
Titanium	0.3	0.0	0.2	---
Copper	4.5	1.2	4.1	---
Aluminum	6.8	0.0	5.9	---
Tin	2.6	3.6	3.2	---
Lead	48	18	42	---
Silver	0.0	0.0	0.0	---