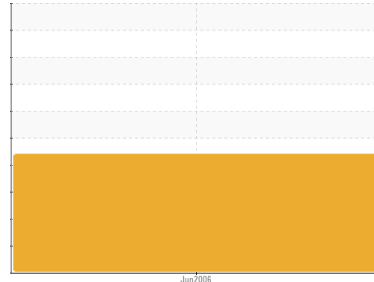




OIL ANALYSIS REPORT

Sample Rating Trend



SOOT

Machine Id
FREIGHTLINER 124

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER15W40 (10 GAL)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present in the oil. There is a moderate concentration of water present in the oil. No evidence of antifreeze present in the oil.

Fluid Condition

The oil viscosity is higher than normal. The TBN result is lower than normal.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KLM071392	---	---
Sample Date	Client Info		18 Jun 2006	---	---
Machine Age	mls	Client Info	735831	---	---
Oil Age	mls	Client Info	15000	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method		<1.0	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	92	---	---
Chromium	ppm	ASTM D5185m	5	---	---
Nickel	ppm	ASTM D5185m	<1	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m	4	---	---
Lead	ppm	ASTM D5185m	13	---	---
Copper	ppm	ASTM D5185m	20	---	---
Tin	ppm	ASTM D5185m	0	---	---
Antimony	ppm	ASTM D5185m	2	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	22	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	45	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	527	---	---
Calcium	ppm	ASTM D5185m	2864	---	---
Phosphorus	ppm	ASTM D5185m	1209	---	---
Zinc	ppm	ASTM D5185m	1435	---	---
Sulfur	ppm	ASTM D5185m	4881	---	---

CONTAMINANTS

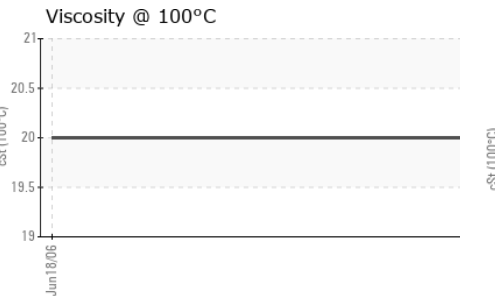
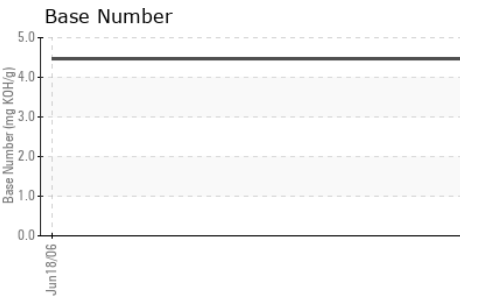
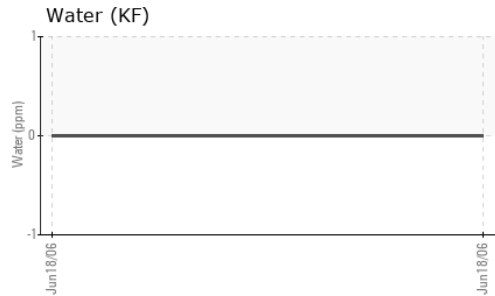
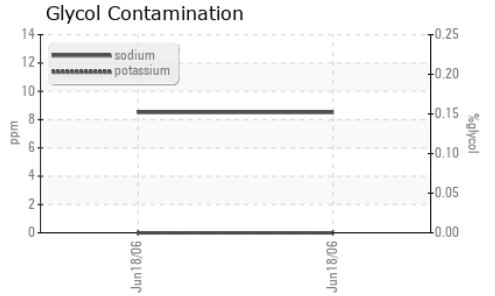
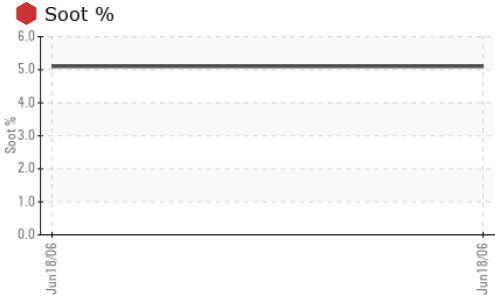
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	21	---	---
Sodium	ppm	ASTM D5185m	8	---	---
Potassium	ppm	ASTM D5185m	0	---	---
Water	%	ASTM D6304	0.480	---	---
Glycol	%	*ASTM D2982	NEG	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	5.1	---	---
Nitration	Abs/cm	*ASTM D7624	0.16	---	---
Sulfation	Abs/.1mm	*ASTM D7415	0.12	---	---



OIL ANALYSIS REPORT



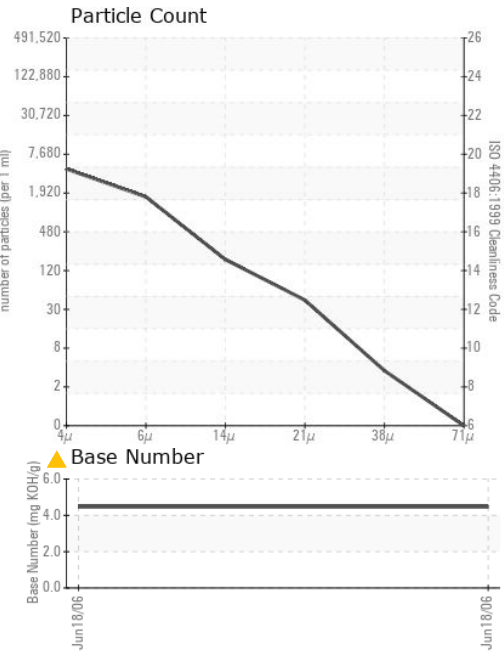
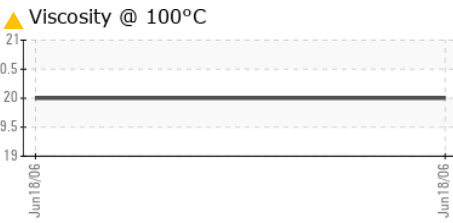
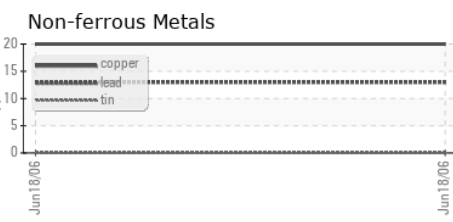
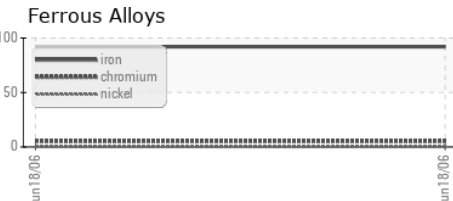
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		3971	---	---
Particles >6µm	ASTM D7647		1468	---	---
Particles >14µm	ASTM D7647		157	---	---
Particles >21µm	ASTM D7647		37	---	---
Particles >38µm	ASTM D7647		3	---	---
Particles >71µm	ASTM D7647		0	---	---
Oil Cleanliness	ISO 4406 (c)		18/14	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414		0.36	---	---
Base Number (BN)	mg KOH/g ASTM D2896		▲ 4.47	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	---	---
Yellow Metal	scalar *Visual	NONE	NONE	---	---
Precipitate	scalar *Visual	NONE	NONE	---	---
Silt	scalar *Visual	NONE	NONE	---	---
Debris	scalar *Visual	NONE	NONE	---	---
Sand/Dirt	scalar *Visual	NONE	NONE	---	---
Appearance	scalar *Visual	NORML	NORML	---	---
Odor	scalar *Visual	NORML	NORML	---	---
Emulsified Water	scalar *Visual		▲ 0.5%	---	---
Free Water	scalar *Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		▲ 20.00	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLM071392 **Received** : 19 Jun 2006
Lab Number : **01740626** **Diagnosed** : 21 Jun 2006
Unique Number : 3747398 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: Glycol, KF, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

8TH DAY
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F: