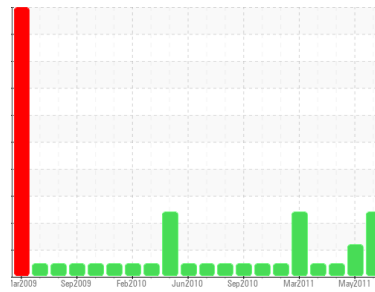




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
MACK 1661
Component
Diesel Engine
Fluid
CHEVRON DELO 400 LE 15W40 (52 QTS)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WCMF903779	WCMF903795	WCMF903796
Sample Date	Client Info		10 Jun 2011	30 May 2011	01 May 2011
Machine Age	mls	Client Info	59428	59396	57304
Oil Age	mls	Client Info	3292	3260	1168
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			SEVERE	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	7	7	6
Chromium	ppm	ASTM D5185m	<1	<1	<1
Nickel	ppm	ASTM D5185m	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	3	3	3
Lead	ppm	ASTM D5185m	0	0	<1
Copper	ppm	ASTM D5185m	3	3	6
Tin	ppm	ASTM D5185m	<1	<1	<1
Antimony	ppm	ASTM D5185m	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	363	361	401
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	76	78	77
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	401	396	399
Calcium	ppm	ASTM D5185m	1379	1547	1450
Phosphorus	ppm	ASTM D5185m	942	1202	1040
Zinc	ppm	ASTM D5185m	1142	1114	1184
Sulfur	ppm	ASTM D5185m	2926	2770	3016

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	3	2	4
Sodium	ppm	ASTM D5185m	3	2	3
Potassium	ppm	ASTM D5185m	1	2	1
Fuel	%	ASTM D3524	10.0	9.3	<1.0

INFRA-RED

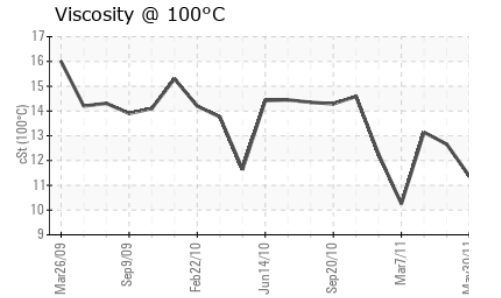
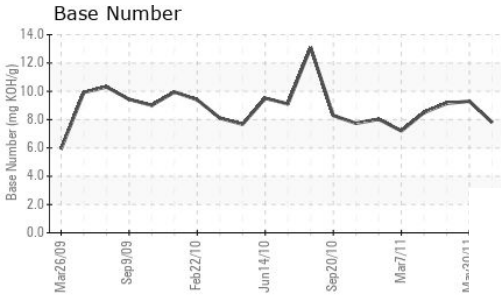
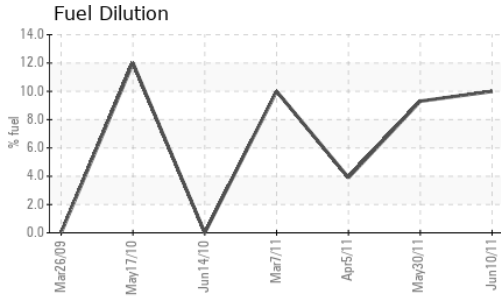
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.2	0.2	0
Nitration	Abs/cm	*ASTM D7624	6.	6.	6.
Sulfation	Abs/.1mm	*ASTM D7415	19.	19.	19.

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	13.	13.	14.
Base Number (BN)	mg KOH/g	ASTM D2896	7.8	9.30	9.15



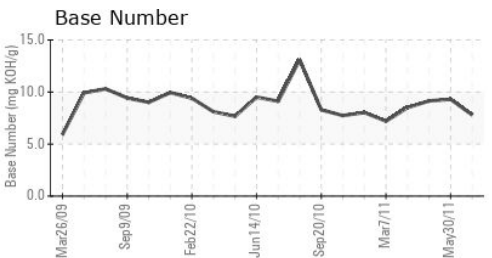
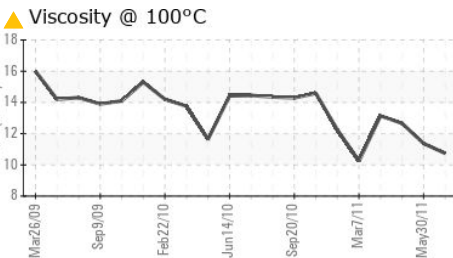
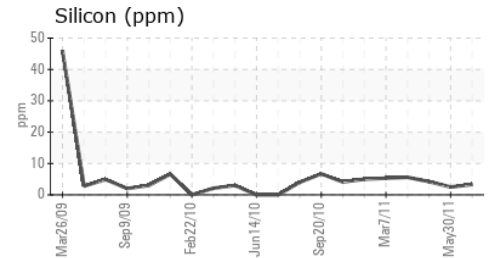
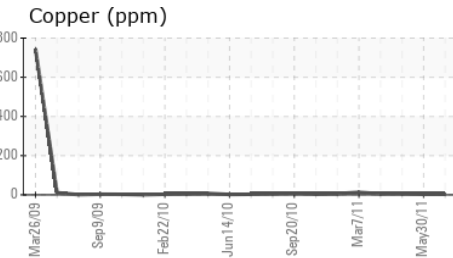
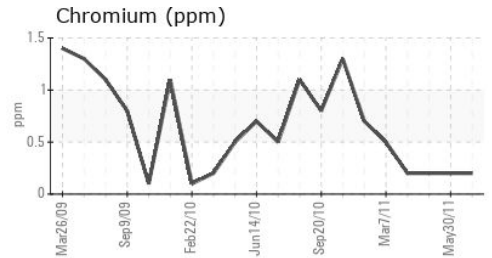
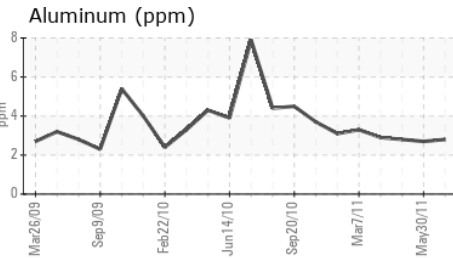
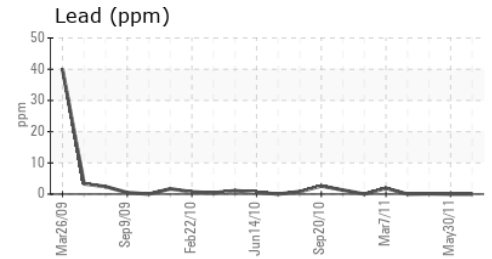
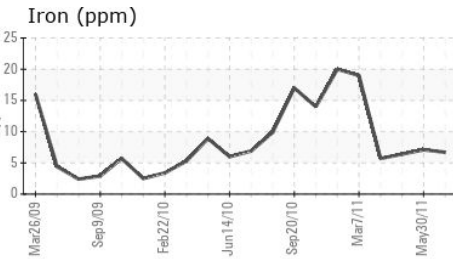
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 10.74	▲ 11.37	12.66

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WCMF903779 Received : 13 Jun 2011
 Lab Number : 02872110 Diagnosed : 14 Jun 2011
 Unique Number : 5588623 Diagnostician : Elizabeth Valachovic
 Test Package : MOB 2 (Additional Tests: PercentFuel)

GFL Environmental - 9999 - Moved No Longer Used Units

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)

US
Contact:

T:
F: