



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MACK MR 6885 1294 (S/N 1M2K195C82M020775)
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 LE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WCMF851628	WCMF854983	WCMF834912
Sample Date		Client Info		19 May 2010	05 Apr 2010	03 Feb 2010
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		17	12	12
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		4	3	4
Lead	ppm	ASTM D5185m		<1	<1	0
Copper	ppm	ASTM D5185m		3	1	<1
Tin	ppm	ASTM D5185m		<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

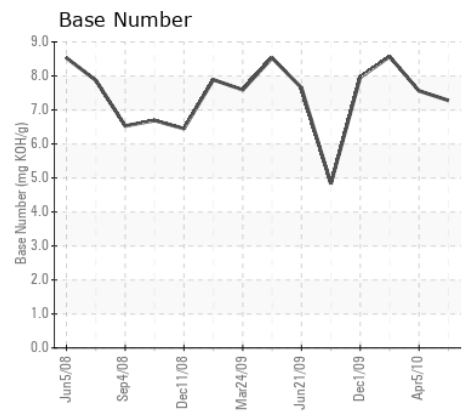
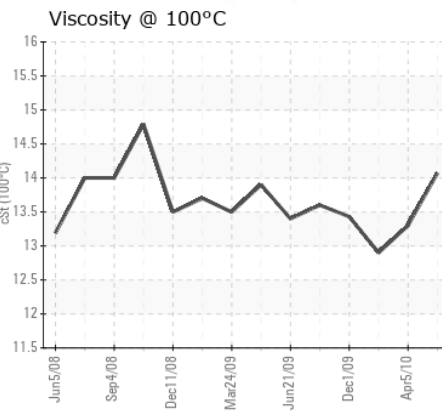
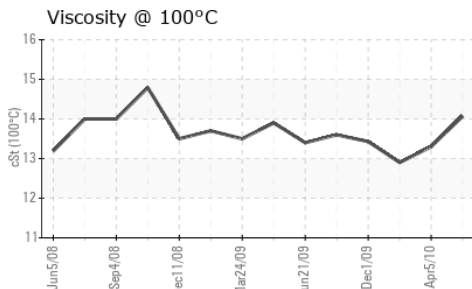
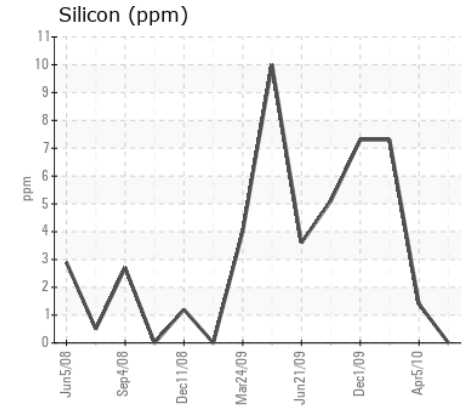
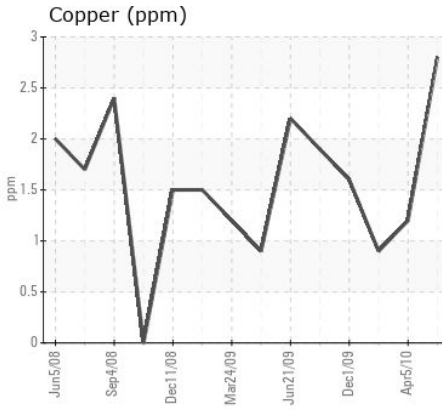
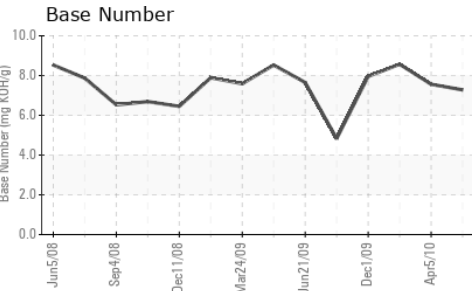
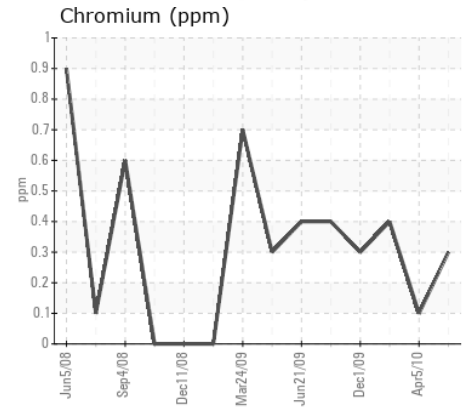
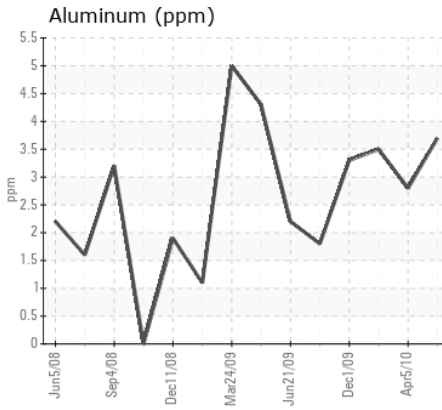
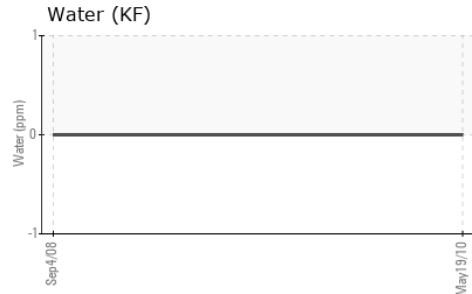
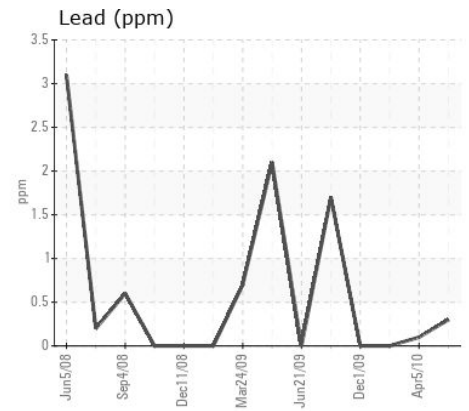
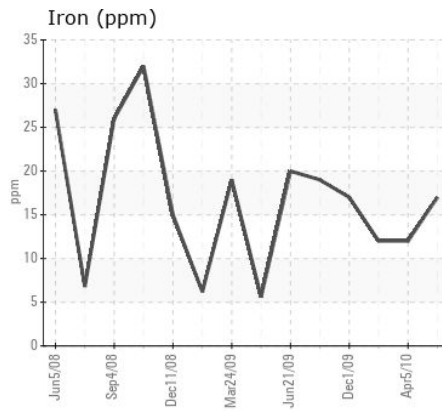
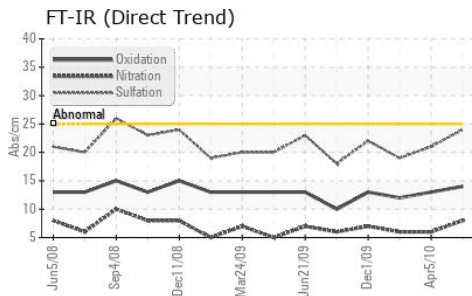
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		0	1	7
Potassium	ppm	ASTM D5185m		1	<1	0
Fuel		WC Method		<1.0	<1.0	<1.0
Water	%	ASTM D6304		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		2.8	1	0.8
Nitration	Abs/cm	*ASTM D7624		8.	6.	6.
Sulfation	Abs/.1mm	*ASTM D7415		24.	21.	19.
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG

FLUID CONDITION

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	1	4
Boron	ppm	ASTM D5185m		308	342	384
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		66	68	78
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		296	306	381
Calcium	ppm	ASTM D5185m		1182	1273	1439
Phosphorus	ppm	ASTM D5185m		882	908	990
Zinc	ppm	ASTM D5185m		937	983	1129
Sulfur	ppm	ASTM D5185m		2272	2429	3606
Oxidation	Abs/.1mm	*ASTM D7414		14.	13.	12.
Base Number (BN)	mg KOH/g	ASTM D2896		7.28	7.56	8.57
Visc @ 100°C	cSt	ASTM D445		14.07	13.3	12.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCMF851628
Lab Number : 02643537
Unique Number : 5218495
Test Package : MOB 2 (Additional Tests: KF)

Received : 03 Jun 2010
Tested : 03 Jun 2010
Diagnosed : 03 Jun 2010 - Don Baldrige

ALLIED WASTE
 8101 LITTLE YORK RD
 HOUSTON, TX
 US 77016

Contact: CARLOS RODRIGUEZ
 brian.mathis@awin.com

T: (713)636-6338

F:

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)