



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	MARGINAL

Machine Id
CATERPILLAR EMD CAT 2WB16670

Component
Diesel Engine

Fluid
{not provided} (10 GAL)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

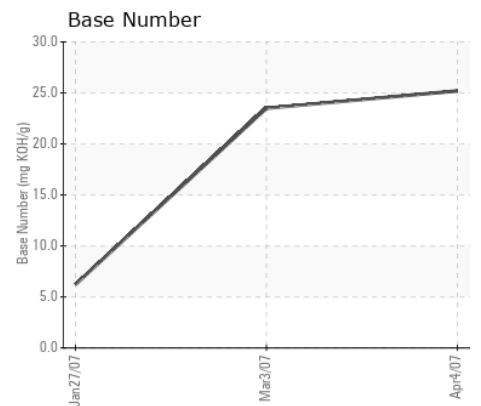
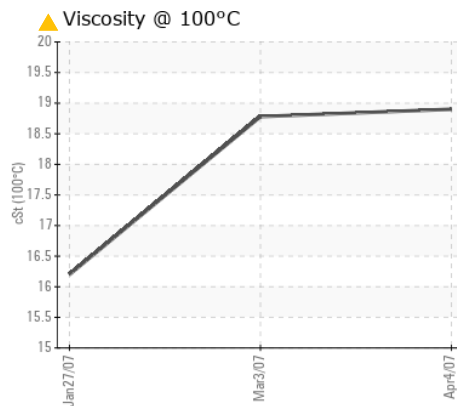
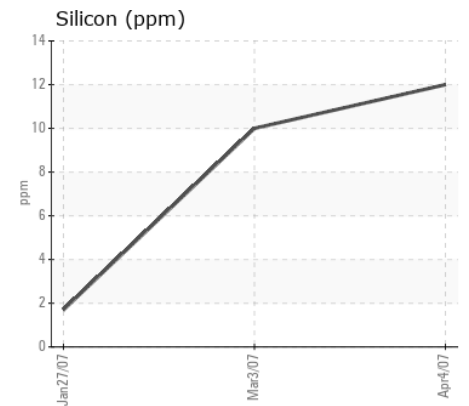
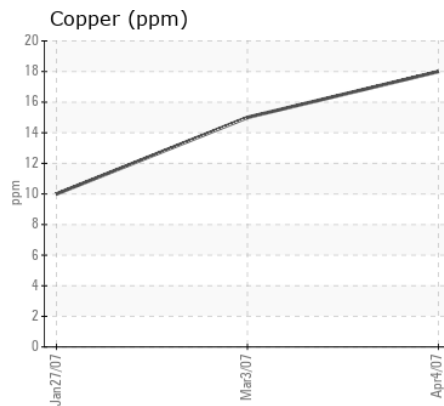
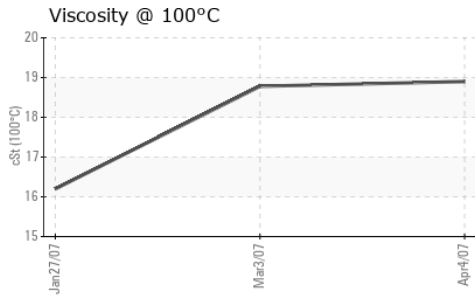
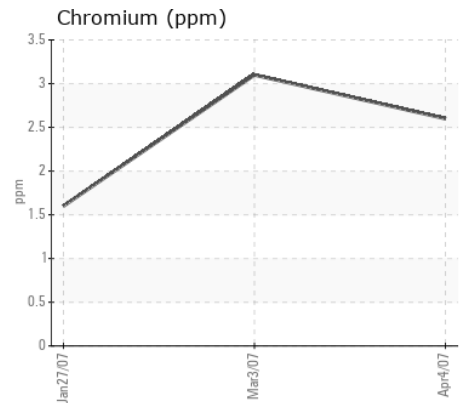
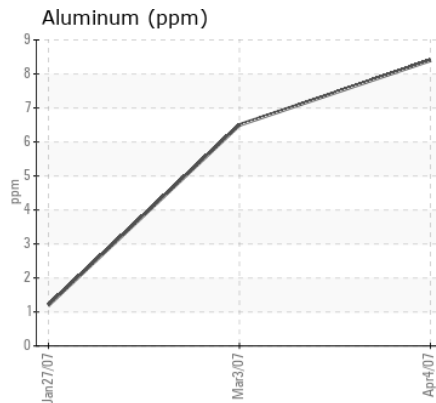
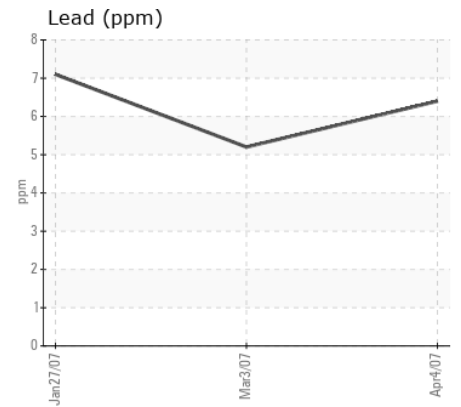
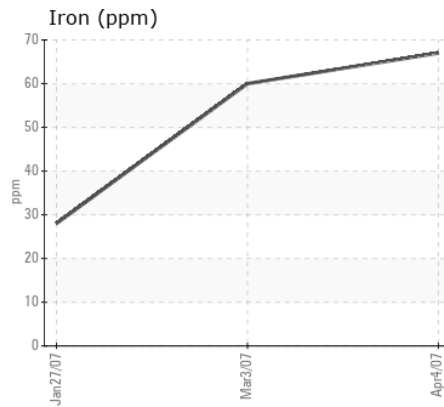
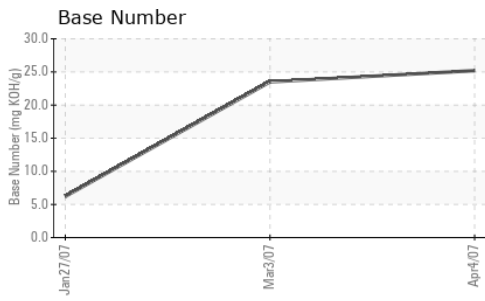
CONTAMINATION

There is no indication of any contamination in the component.

FLUID CONDITION

The oil viscosity is higher than normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP033583	RP034983	RP034673
Sample Date		Client Info		04 Apr 2007	03 Mar 2007	27 Jan 2007
Machine Age	hrs	Client Info		6885	6121	5261
Oil Age	hrs	Client Info		1624	860	356
Filter Age	hrs	Client Info		764	860	356
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m		67	60	28
Chromium	ppm	ASTM D5185m		3	3	2
Nickel	ppm	ASTM D5185m		1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		8	6	1
Lead	ppm	ASTM D5185m		6	5	7
Copper	ppm	ASTM D5185m		18	15	10
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m		12	10	2
Potassium	ppm	ASTM D5185m		0	0	<1
Fuel		WC Method		<1.0	<1.0	<1.0
Water	%	ASTM D6304		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.8	1	0
Nitration	Abs/cm	*ASTM D7624		17.	19.	3.
Sulfation	Abs/.1mm	*ASTM D7415		43.	48.	13.
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
Sodium	ppm	ASTM D5185m		10	7	19
Boron	ppm	ASTM D5185m		3	3	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		122	106	5
Manganese	ppm	ASTM D5185m		5	1	2
Magnesium	ppm	ASTM D5185m		3168	3173	1624
Calcium	ppm	ASTM D5185m		6340	5854	232
Phosphorus	ppm	ASTM D5185m		1061	1002	1012
Zinc	ppm	ASTM D5185m		1591	1484	1225
Oxidation	Abs/.1mm	*ASTM D7414		31.	35.	5.
Base Number (BN)	mg KOH/g	ASTM D2896		25.2	23.5	6.22
Visc @ 100°C	cSt	ASTM D445		▲ 18.9	▲ 18.78	16.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP033583 **Received** : 20 Apr 2007
Lab Number : 01946136 **Tested** : 23 Apr 2007
Unique Number : 4084821 **Diagnosed** : 23 Apr 2007 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KF)

OILMAX S.A.S.
 AV 6 DICIEMBRE Y GASPAR CANTERO
 QUITO-ECUADOR,

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 oilmax.ec@gmail.com
 T: (593)996-451694

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)

F: x: