



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CATERPILLAR EMD 3406B
Component
Diesel Engine
Fluid
ROYAL PURPLE MOTOR OIL 15W40 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP033554	RP034678	---
Sample Date		Client Info		23 Sep 2006	22 Apr 2006	---
Machine Age	hrs	Client Info		14639	0	---
Oil Age	hrs	Client Info		790	1466	---
Filter Age	hrs	Client Info		790	730	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		37	74	---
Chromium	ppm	ASTM D5185m		<1	1	---
Nickel	ppm	ASTM D5185m		<1	1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		7	8	---
Lead	ppm	ASTM D5185m		<1	3	---
Copper	ppm	ASTM D5185m		3	4	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

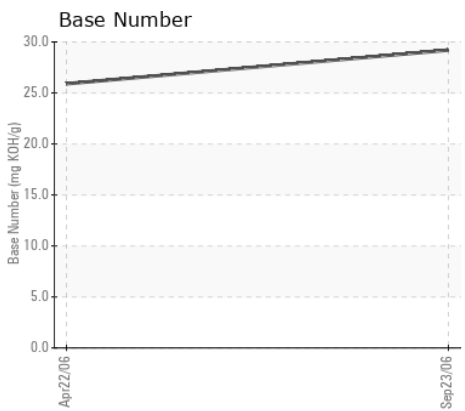
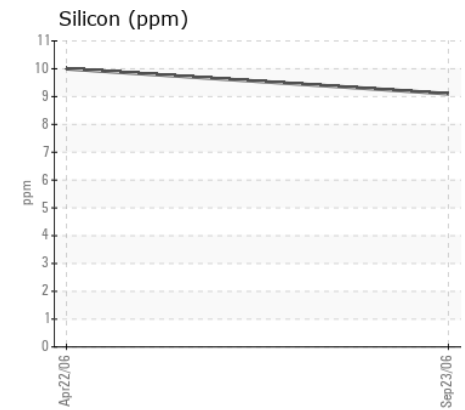
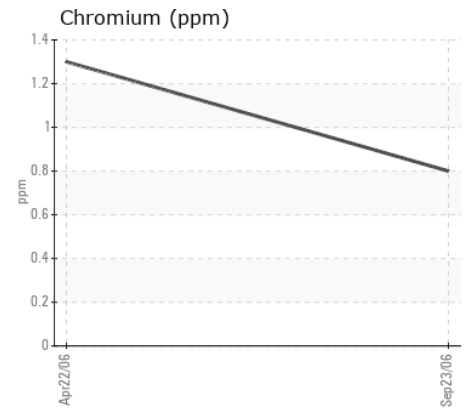
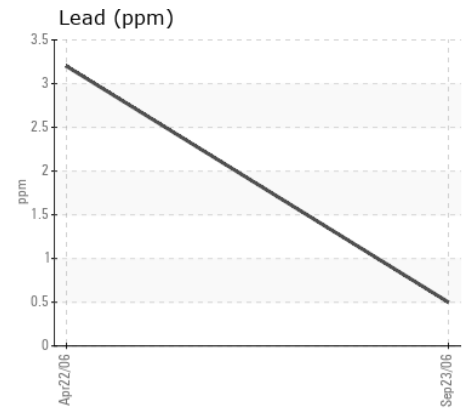
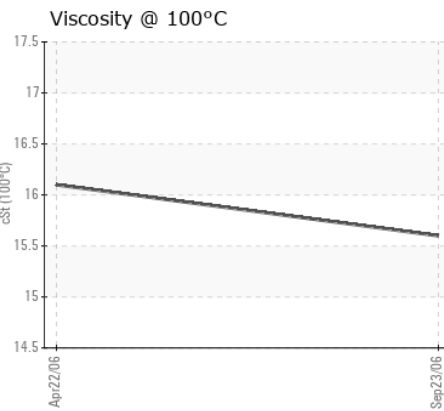
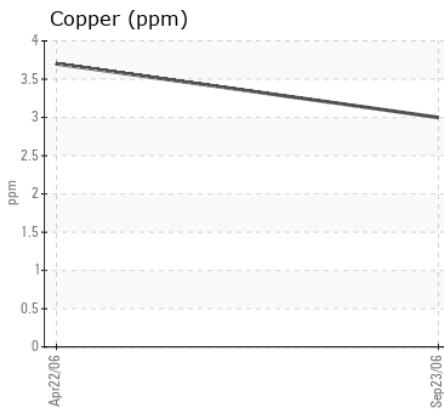
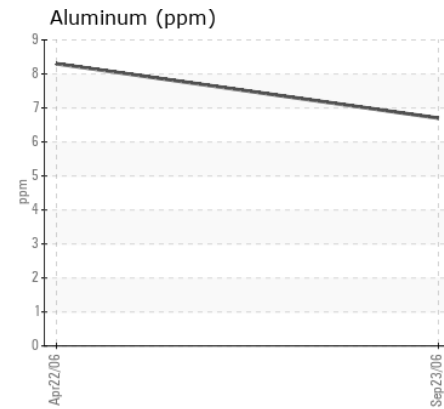
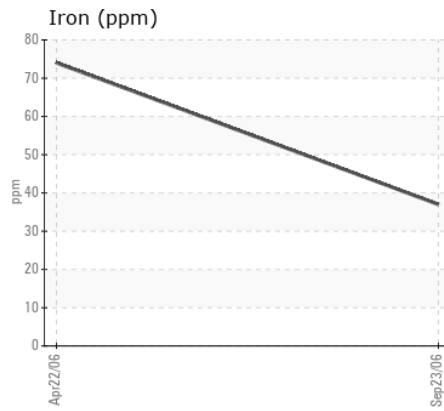
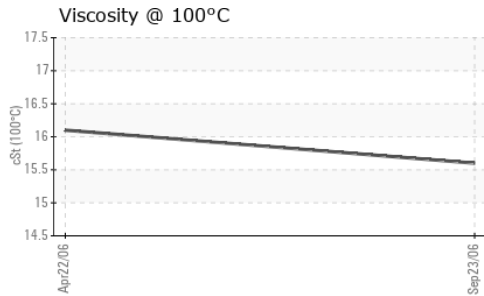
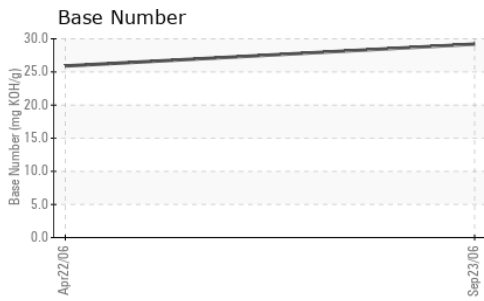
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		9	10	---
Potassium	ppm	ASTM D5185m		0	0	---
Fuel		WC Method		<1.0	<1.0	---
Water		WC Method		NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.3	1.1	---
Nitration	Abs/cm	*ASTM D7624		0.14	0.23	---
Sulfation	Abs/.1mm	*ASTM D7415		0.22	0.53	---
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	0.1%	---

FLUID CONDITION

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	6	---
Boron	ppm	ASTM D5185m		<1	3	---
Barium	ppm	ASTM D5185m		0	19	---
Molybdenum	ppm	ASTM D5185m		113	127	---
Manganese	ppm	ASTM D5185m		1	1	---
Magnesium	ppm	ASTM D5185m		2688	3323	---
Calcium	ppm	ASTM D5185m		5459	6152	---
Phosphorus	ppm	ASTM D5185m		918	1018	---
Zinc	ppm	ASTM D5185m		1312	1488	---
Oxidation	Abs/.1mm	*ASTM D7414		0.26	0.68	---
Base Number (BN)	mg KOH/g	ASTM D2896		29.2	25.9	---
Visc @ 100°C	cSt	ASTM D445		15.6	16.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP033554
Lab Number : 01844441
Unique Number : 3912739
Test Package : MOB 2

Received : 06 Oct 2006
Tested : 09 Oct 2006
Diagnosed : 09 Oct 2006 - Doug Bogart

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

Contact: DANNY BARREIRO
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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: