



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**CATERPILLAR EMD 3406**  
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		<b>RP034943</b>	---	---
Sample Date		Client Info		<b>01 Apr 2006</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>1459</b>	---	---
Filter Age	hrs	Client Info		<b>730</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m		<b>52</b>	---	---
Chromium	ppm	ASTM D5185m		<b>3</b>	---	---
Nickel	ppm	ASTM D5185m		<b>1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m		<b>9</b>	---	---
Lead	ppm	ASTM D5185m		<b>5</b>	---	---
Copper	ppm	ASTM D5185m		<b>43</b>	---	---
Tin	ppm	ASTM D5185m		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

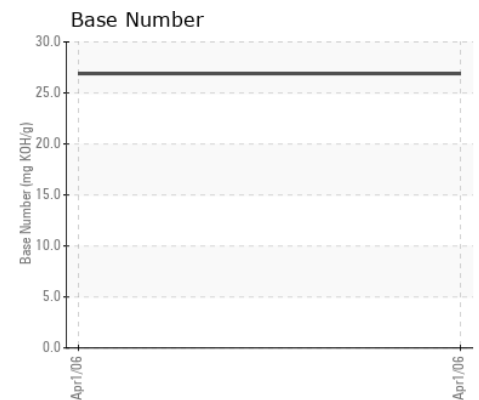
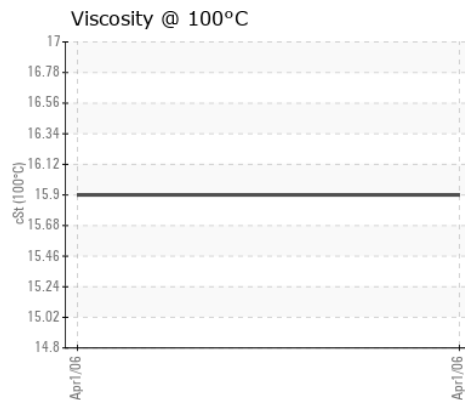
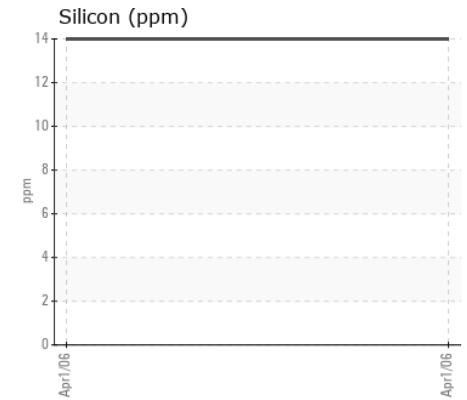
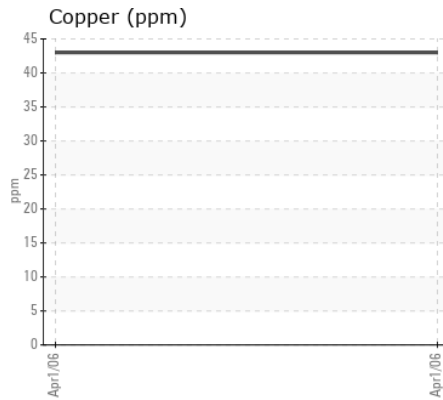
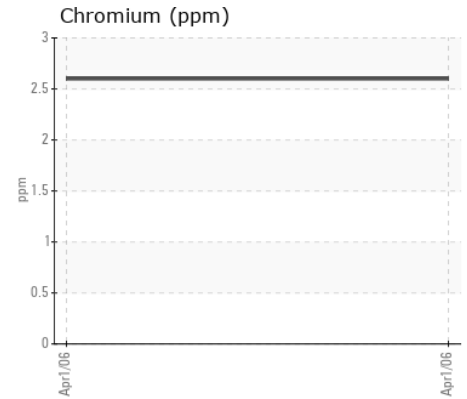
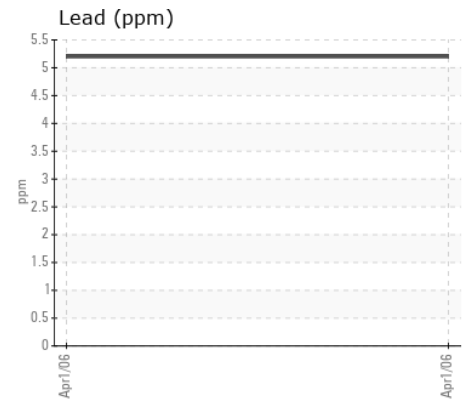
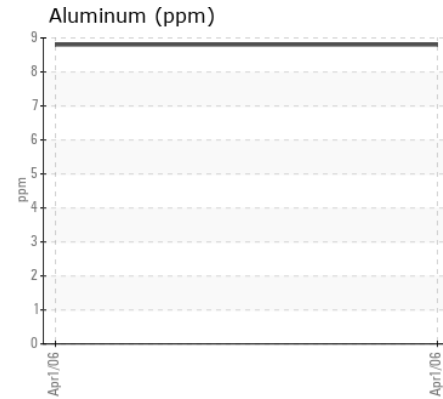
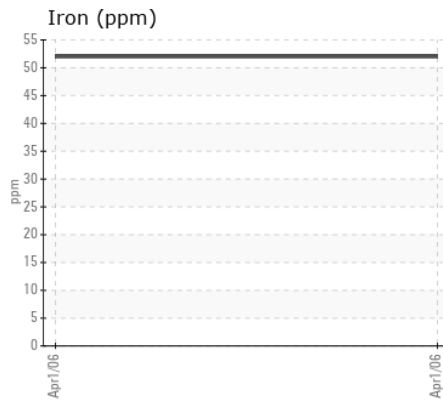
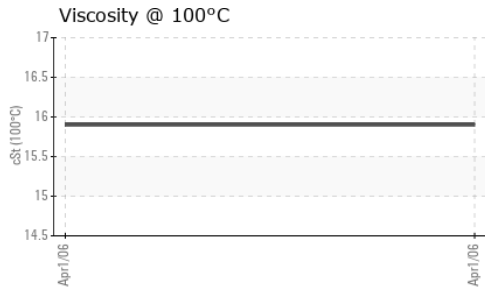
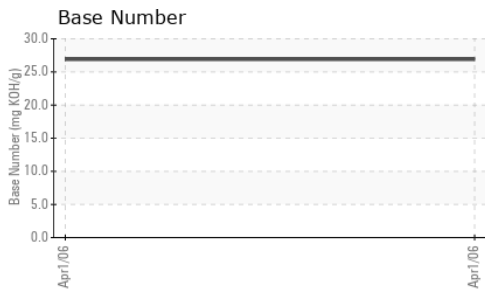
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		<b>14</b>	---	---
Potassium	ppm	ASTM D5185m		<b>0</b>	---	---
Fuel		WC Method		<b>&lt;1.0</b>	---	---
Water		WC Method		<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844		<b>0.4</b>	---	---
Nitration	Abs/cm	*ASTM D7624		<b>0.22</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415		<b>0.47</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual		<b>NEG</b>	---	---

**FLUID CONDITION**

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Boron	ppm	ASTM D5185m		<b>2</b>	---	---
Barium	ppm	ASTM D5185m		<b>6</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>128</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>3229</b>	---	---
Calcium	ppm	ASTM D5185m		<b>6378</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>982</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1476</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414		<b>0.70</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>26.9</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>15.9</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP034943  
**Lab Number** : 01711420  
**Unique Number** : 3697677  
**Test Package** : MOB 2

**Received** : 24 May 2006  
**Tested** : 25 May 2006  
**Diagnosed** : 25 May 2006 - Doug Bogart

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

Contact: DANNY BARREIRO  
 oilmax.ec@gmail.com

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)

T: (593)996-451694

F: x: