



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

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

Machine Id  
**CATERPILLAR EMD CAT 2WB12810**  
Component  
**Diesel Engine**  
Fluid  
**TEXACO URSA PREMIUM TDX EC 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>RP44375</b>	---	---
Sample Date		Client Info		<b>04 Apr 2007</b>	---	---
Machine Age	hrs	Client Info		<b>12960</b>	---	---
Oil Age	hrs	Client Info		<b>312</b>	---	---
Filter Age	hrs	Client Info		<b>312</b>	---	---
Oil Changed		Client Info		<b>Changed</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>11</b>	---	---
Chromium	ppm	ASTM D5185m		<b>0</b>	---	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m		<b>4</b>	---	---
Lead	ppm	ASTM D5185m		<b>0</b>	---	---
Copper	ppm	ASTM D5185m		<b>1</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**

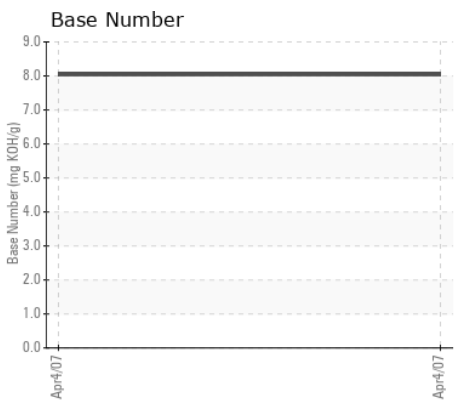
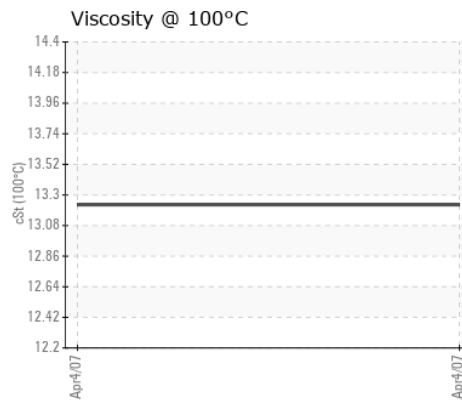
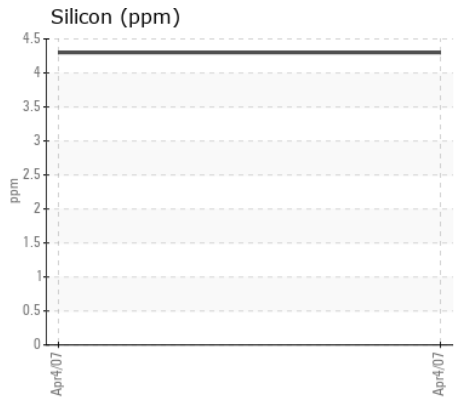
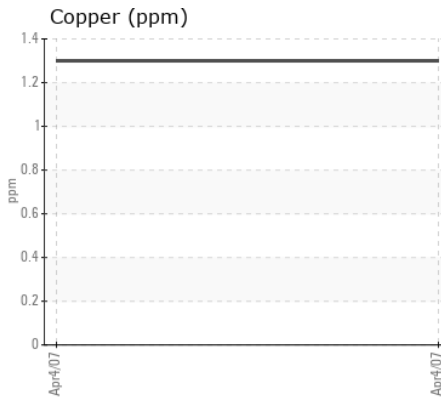
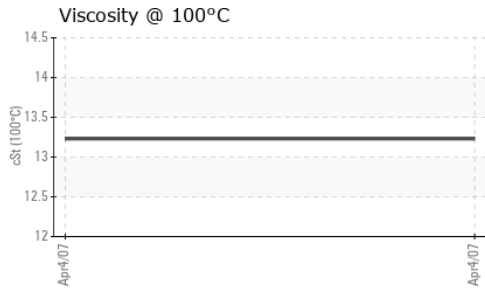
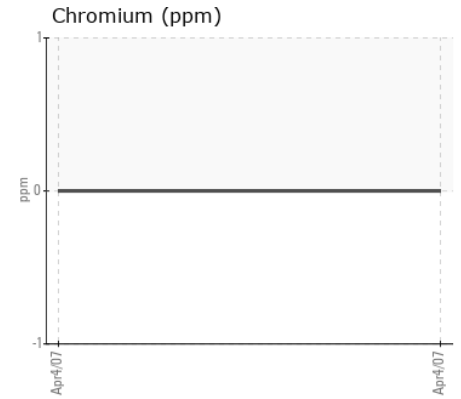
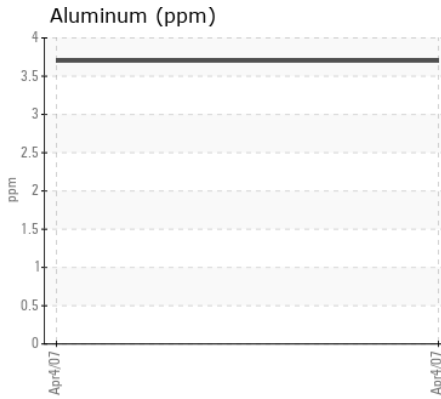
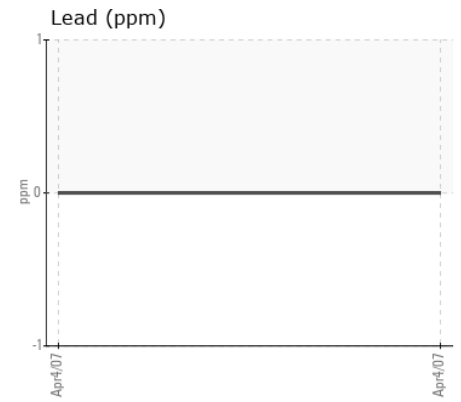
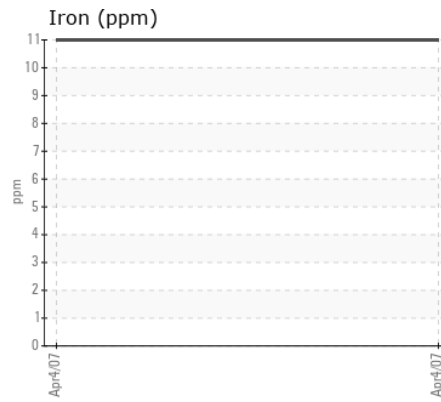
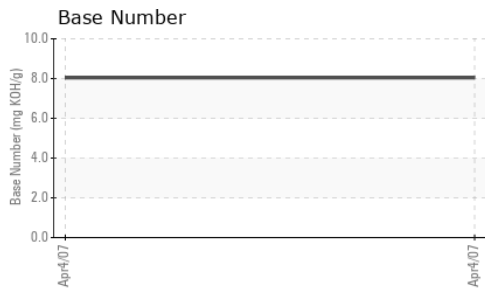
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		<b>4</b>	---	---
Potassium	ppm	ASTM D5185m		<b>0</b>	---	---
Fuel		WC Method		<b>&lt;1.0</b>	---	---
Water	%	ASTM D6304		<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844		<b>0</b>	---	---
Nitration	Abs/cm	*ASTM D7624		<b>4.</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415		<b>17.</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>10</b>	---	---
Boron	ppm	ASTM D5185m		<b>85</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>86</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>52</b>	---	---
Calcium	ppm	ASTM D5185m		<b>2739</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>980</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1244</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414		<b>9.</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.04</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>13.23</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : RP44375

**Lab Number** : 01946147

**Unique Number** : 4084832

**Test Package** : MOB 2 ( Additional Tests: KF )

**Received** : 20 Apr 2007

**Tested** : 23 Apr 2007

**Diagnosed** : 23 Apr 2007 - Doug Bogart

**OILMAX S.A.S.**

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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)