



PERFORMANCE  
UNDER  
PRESSURE

OIL ANALYSIS REPORT

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

Machine Id  
**CATERPILLAR 6TB14330**

Component  
**Front Diesel Engine**

Fluid  
**{not provided} (10 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RP76373</b>	RP76352	RP76353
Sample Date		Client Info		<b>09 Oct 2010</b>	09 Sep 2010	18 Aug 2010
Machine Age	hrs	Client Info		<b>9460</b>	8740	8212
Oil Age	hrs	Client Info		<b>200</b>	744	200
Filter Age	hrs	Client Info		<b>200</b>	528	200
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m		<b>108</b>	91	49
Chromium	ppm	ASTM D5185m		<b>3</b>	3	2
Nickel	ppm	ASTM D5185m		<b>3</b>	2	1
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>8</b>	8	7
Lead	ppm	ASTM D5185m		<b>1</b>	2	0
Copper	ppm	ASTM D5185m		<b>7</b>	5	2
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

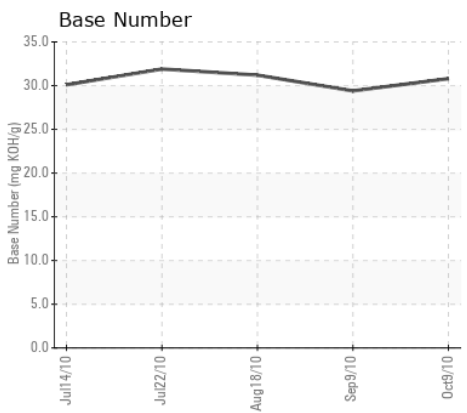
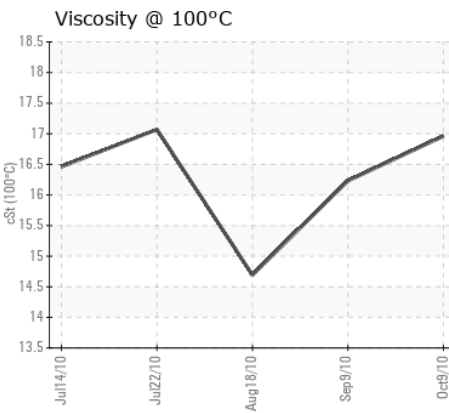
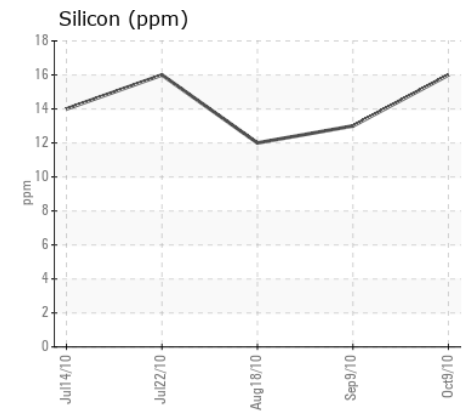
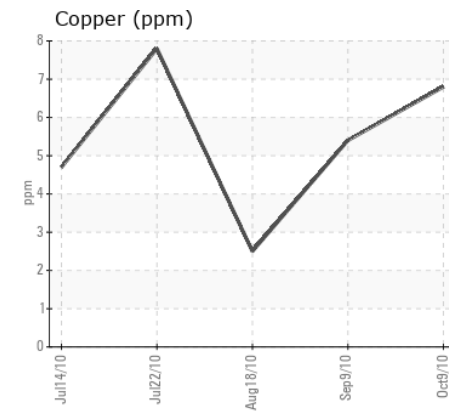
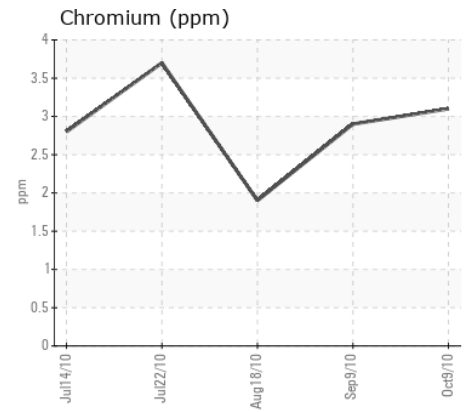
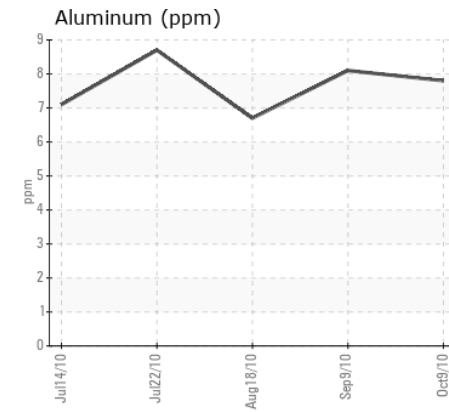
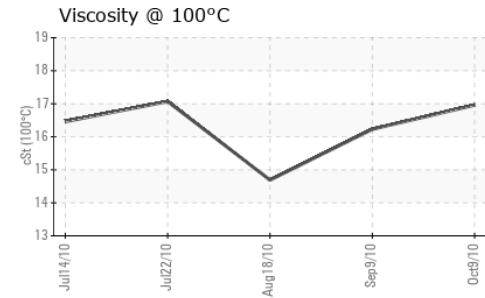
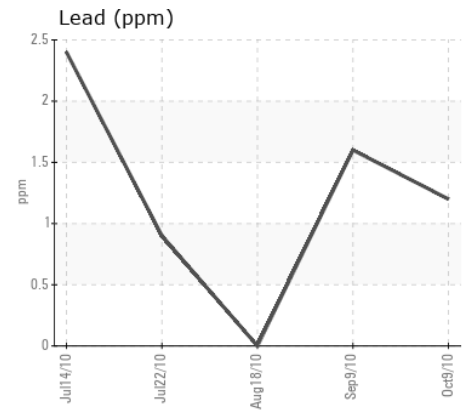
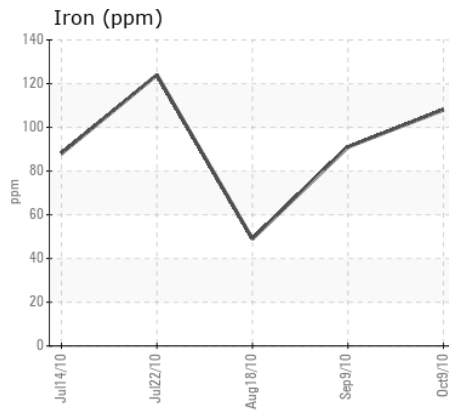
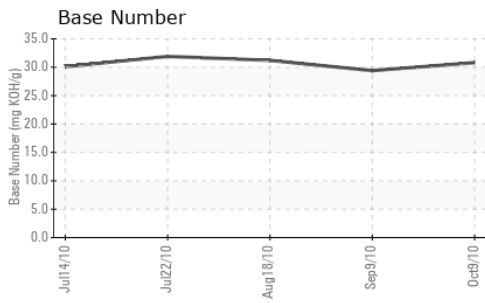
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		<b>16</b>	13	12
Potassium	ppm	ASTM D5185m		<b>1</b>	0	0
Fuel		WC Method		<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method		<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	1.1	0.6
Nitration	Abs/cm	*ASTM D7624		<b>5.</b>	15.	11.
Sulfation	Abs/.1mm	*ASTM D7415		<b>15.</b>	33.	27.
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	4	3
Boron	ppm	ASTM D5185m		<b>0</b>	<1	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>140</b>	147	125
Manganese	ppm	ASTM D5185m		<b>2</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>3399</b>	3184	2916
Calcium	ppm	ASTM D5185m		<b>6832</b>	6604	5971
Phosphorus	ppm	ASTM D5185m		<b>1094</b>	1041	975
Zinc	ppm	ASTM D5185m		<b>1581</b>	1531	1394
Oxidation	Abs/.1mm	*ASTM D7414		<b>7.</b>	23.	20.
Base Number (BN)	mg KOH/g	ASTM D2896		<b>30.8</b>	29.4	31.2
Visc @ 100°C	cSt	ASTM D445		<b>16.96</b>	16.23	14.69



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP76373  
**Lab Number** : 02740930  
**Unique Number** : 5377331  
**Test Package** : MOB 2  
**Received** : 01 Nov 2010  
**Tested** : 03 Nov 2010  
**Diagnosed** : 03 Nov 2010 - Jonathan Hester

**PETROAMAZONAS**  
 PAMAMINO-EST. COCA  
 COCA-EQUADOR,

Contact: VINICIO CASTILLO

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)

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F: