



OIL ANALYSIS REPORT

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



Machine Id  
**CATERPILLAR CP-323C 2001 (S/N K6DM00577)**  
Component  
**Hydraulic System**  
Fluid  
**{not provided} (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CL0005261</b>	CLMC061360	CLMC030695
Sample Date		Client Info		<b>10 Mar 2024</b>	20 Nov 2009	13 Oct 2006
Machine Age	hrs	Client Info		<b>265</b>	1310	908
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>2</b>	12	9
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	3
Lead	ppm	ASTM D5185m	>10	<b>0</b>	8	7
Copper	ppm	ASTM D5185m	>75	<b>3</b>	45	35
Tin	ppm	ASTM D5185m	>10	<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**

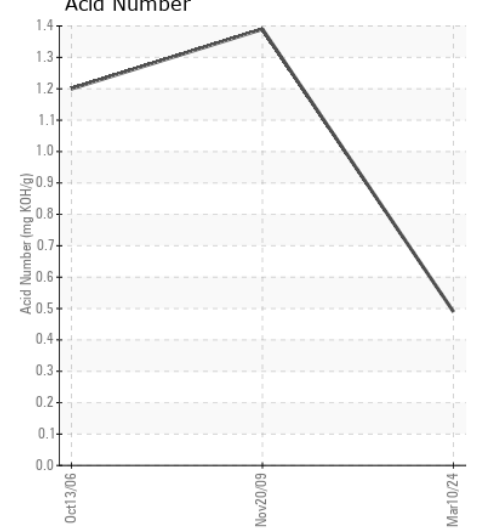
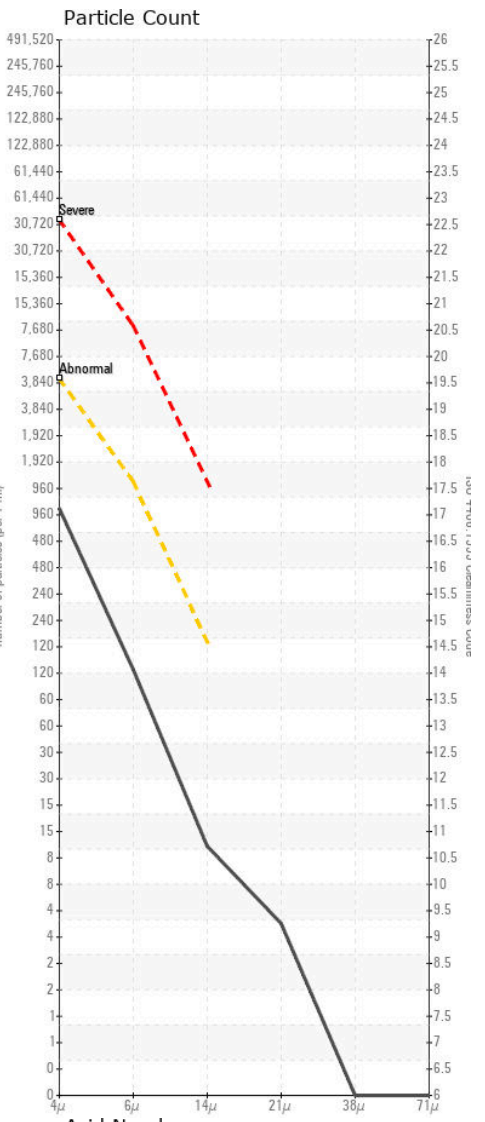
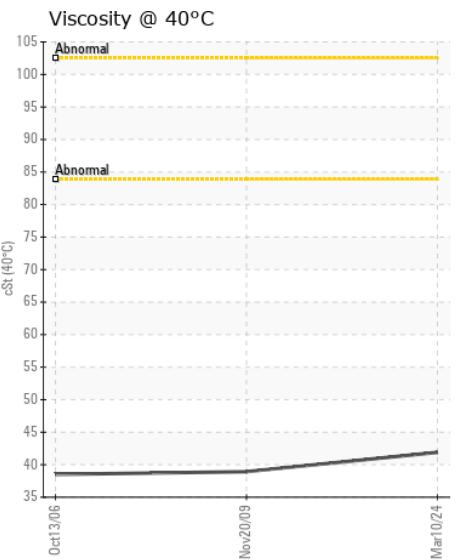
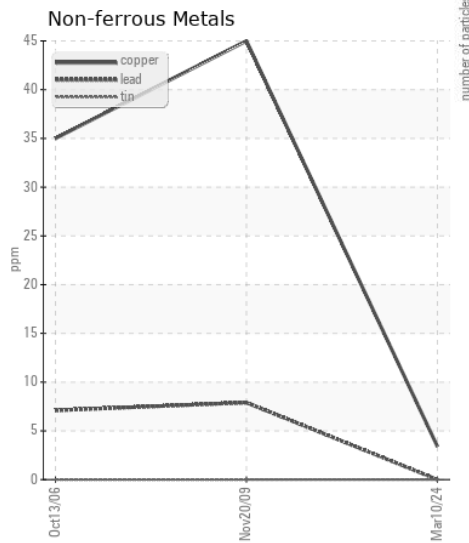
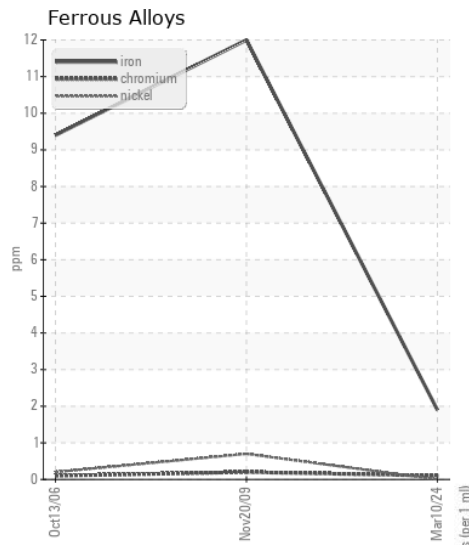
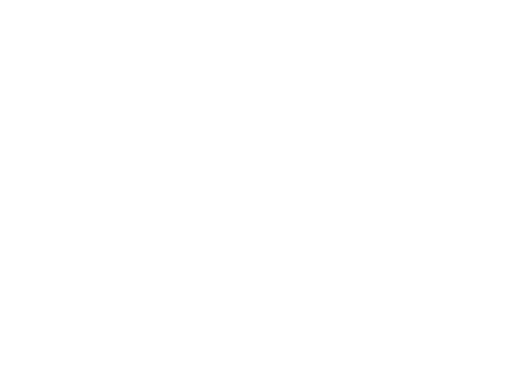
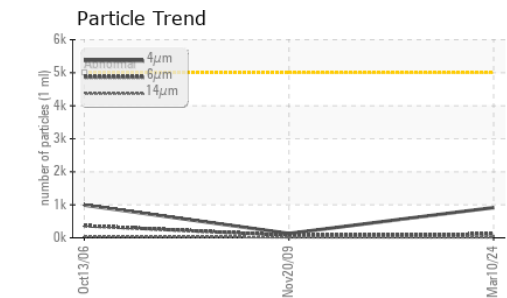
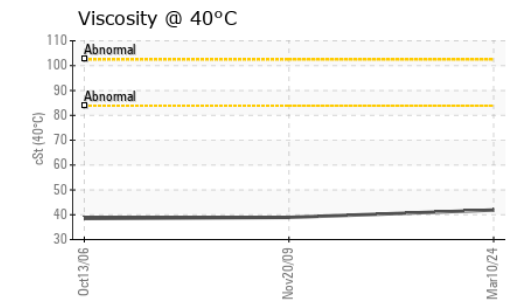
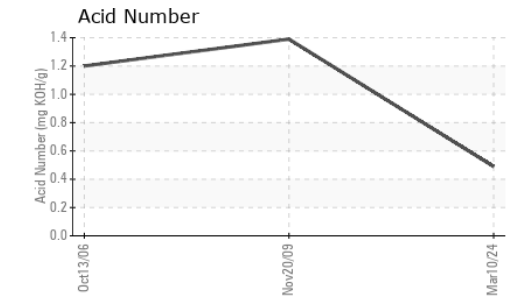
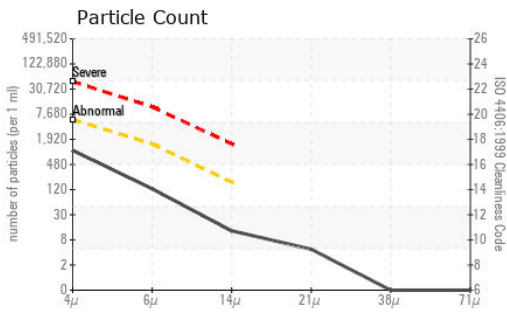
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	8	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>916</b>	132	990
Particles >6µm		ASTM D7647	>1300	<b>111</b>	72	366
Particles >14µm		ASTM D7647	>160	<b>11</b>	12	39
Particles >21µm		ASTM D7647	>40	<b>4</b>	4	9
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/14/11</b>	14/13/11	17/16/12
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	HAZY
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	▲ 0.2%	▲ 0.1%

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	4	6
Boron	ppm	ASTM D5185m		<b>4</b>	16	30
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	358	444
Calcium	ppm	ASTM D5185m		<b>413</b>	523	637
Phosphorus	ppm	ASTM D5185m		<b>442</b>	662	915
Zinc	ppm	ASTM D5185m		<b>537</b>	787	985
Sulfur	ppm	ASTM D5185m		<b>3100</b>	5293	5853
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.49</b>	1.39	1.20
Visc @ 40°C	cSt	ASTM D445		<b>41.9</b>	38.93	38.51



Certificate L2367

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

Sample No. : CL0005261

Lab Number : 06121537

Unique Number : 10930370

Test Package : CONST

Received : 18 Mar 2024

Tested : 19 Mar 2024

Diagnosed : 21 Mar 2024 - Jonathan Hester

PURCELL CONSTRUCTION

3100 HIGH RIDGE RD

CHARLOTTE, NC

US 28270

Contact: BEN MILKE

ben@purcellconst.com

T:

F:

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)