



# OIL ANALYSIS REPORT

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



Area  
**PCS - PORTABLE CRUSHING SERVICES**  
Machine Id  
**CASE EXCAVATOR CX300C TH02 - PCS**  
Component  
**Hydraulic System**  
Fluid  
**STP HYDRO ISO AW 46 (79 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0014101</b>	KL0013080	KL0009679
Sample Date		Client Info		<b>09 Jan 2024</b>	03 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		<b>10063</b>	9972	9672
Oil Age	hrs	Client Info		<b>5680</b>	5589	5289
Filter Age	hrs	Client Info		<b>5680</b>	5589	5289
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	<b>3</b>	0	2
Chromium	ppm	ASTM D5185m	>6	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>45	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>120	<b>3</b>	2	3
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

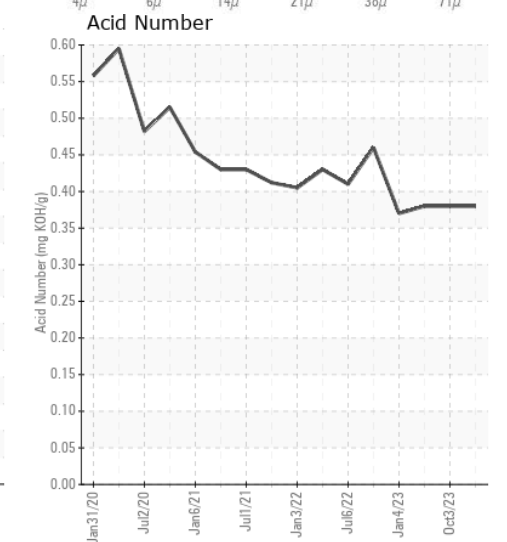
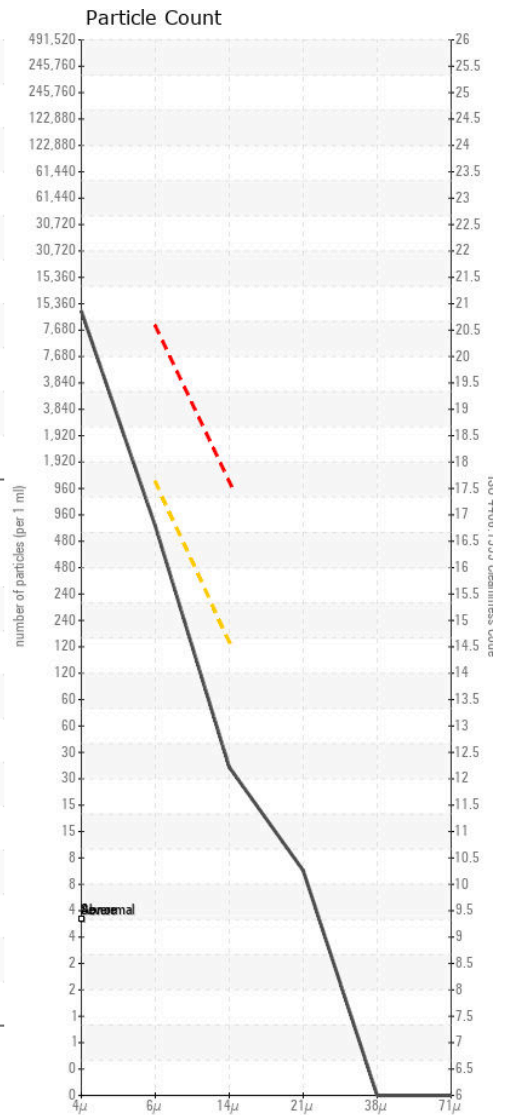
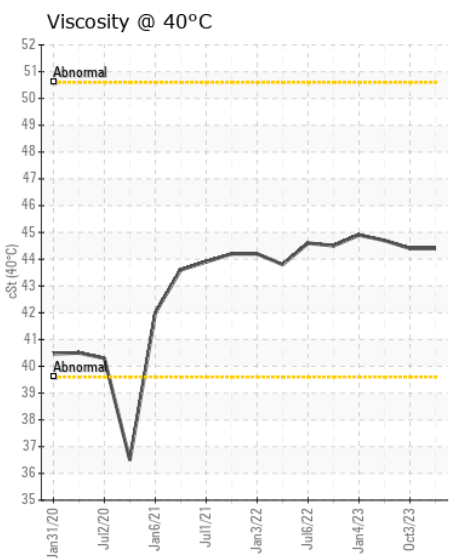
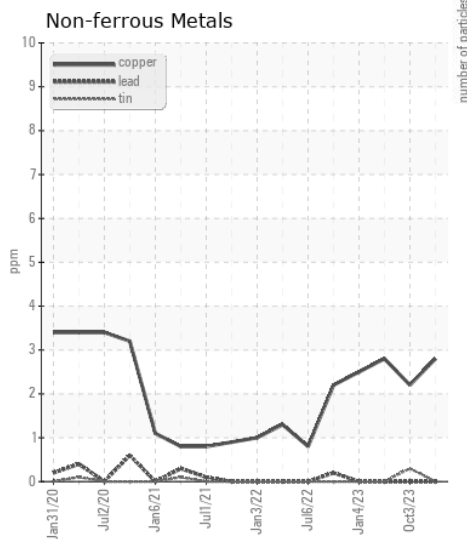
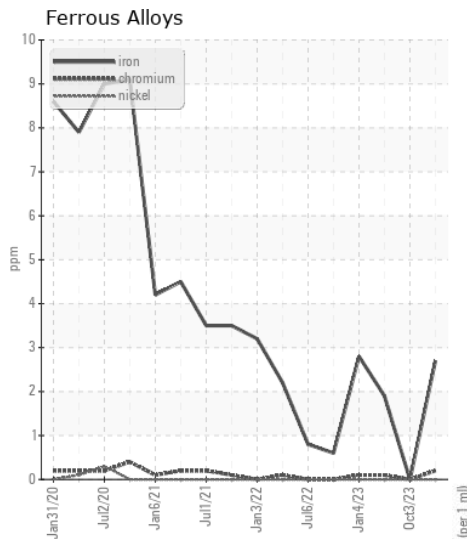
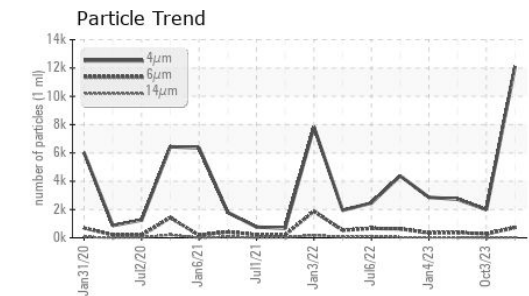
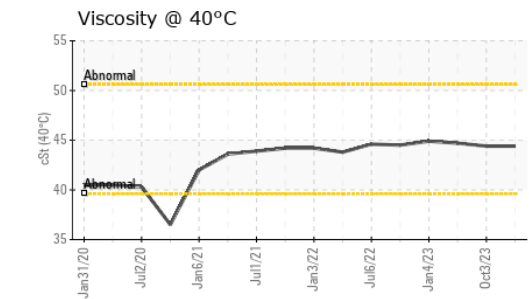
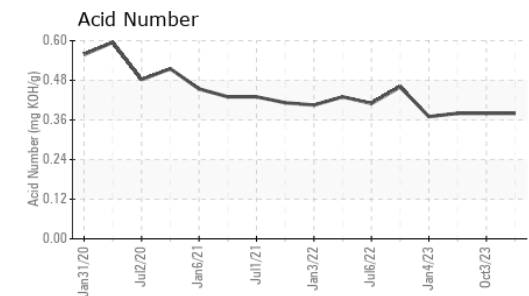
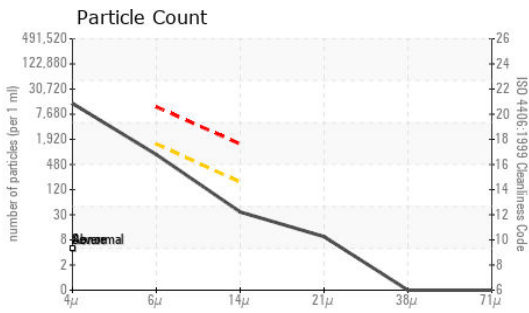
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>12111</b>	1982	2725
Particles >6µm		ASTM D7647	>1300	<b>728</b>	272	368
Particles >14µm		ASTM D7647	>160	<b>31</b>	14	30
Particles >21µm		ASTM D7647	>40	<b>8</b>	5	10
Particles >38µm		ASTM D7647	>10	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>17/14	<b>17/12</b>	15/11	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	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## 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>&lt;1</b>	0	<1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	2	2
Calcium	ppm	ASTM D5185m		<b>5</b>	13	14
Phosphorus	ppm	ASTM D5185m		<b>291</b>	307	289
Zinc	ppm	ASTM D5185m		<b>312</b>	316	290
Sulfur	ppm	ASTM D5185m		<b>1195</b>	1227	1516
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.38</b>	0.38	0.38
Visc @ 40°C	cSt	ASTM D445		<b>44.4</b>	44.4	44.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014101 **Received** : 16 Jan 2024  
**Lab Number** : 06060995 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832377 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2

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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)