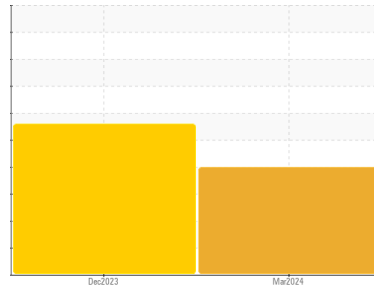




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id

## MACHINE 3 PUMP 2

Component

Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (--- GAL)

### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### ▲ Wear

The iron level is abnormal. The copper level is abnormal.

#### ▲ Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil. There is a light concentration of water present in the oil.

#### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0908007</b>	WC0850240	---
Sample Date	Client Info			<b>28 Mar 2024</b>	13 Dec 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>▲ 24</b>	▲ 23	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	1	---
Lead	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Copper	ppm	ASTM D5185m	>20	<b>▲ 35</b>	▲ 34	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	25	<b>&lt;1</b>	1	---
Calcium	ppm	ASTM D5185m	200	<b>6</b>	3	---
Phosphorus	ppm	ASTM D5185m	300	<b>479</b>	487	---
Zinc	ppm	ASTM D5185m	370	<b>23</b>	30	---
Sulfur	ppm	ASTM D5185m	2500	<b>538</b>	551	---

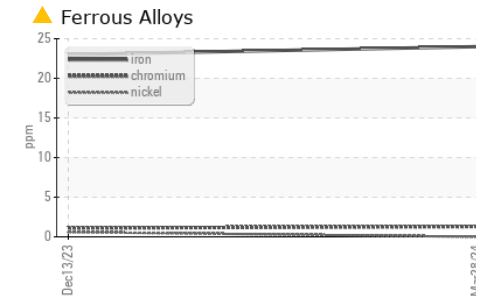
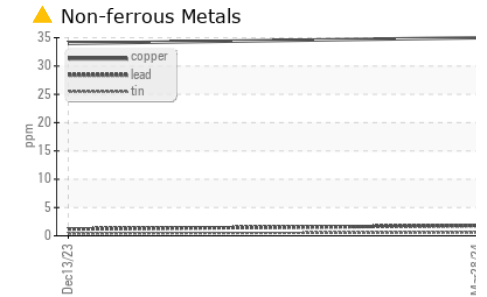
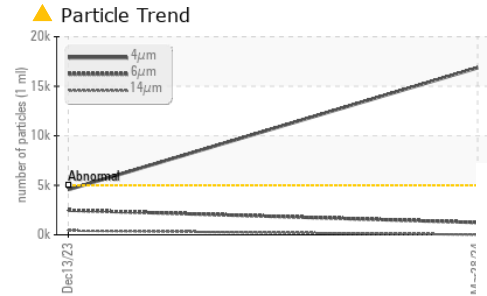
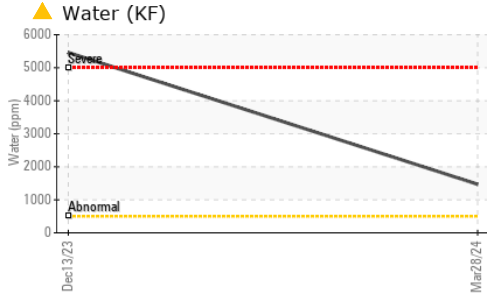
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>4</b>	5	---
Sodium	ppm	ASTM D5185m		<b>0</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	---
Water	%	ASTM D6304	>0.05	<b>▲ 0.147</b>	▲ 0.546	---
ppm Water	ppm	ASTM D6304	>500	<b>▲ 1470</b>	▲ 5460	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>▲ 16869</b>	4559	---
Particles >6µm		ASTM D7647	>1300	<b>1242</b>	▲ 2483	---
Particles >14µm		ASTM D7647	>160	<b>19</b>	▲ 423	---
Particles >21µm		ASTM D7647	>40	<b>5</b>	▲ 142	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	▲ 22	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	▲ 2	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/17/11</b>	▲ 19/18/16	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.15</b>	0.16	---



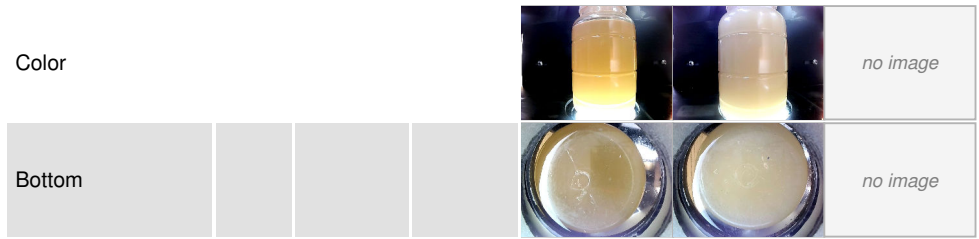
# OIL ANALYSIS REPORT



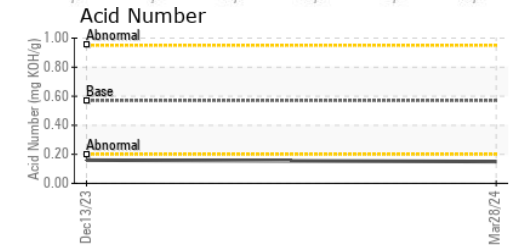
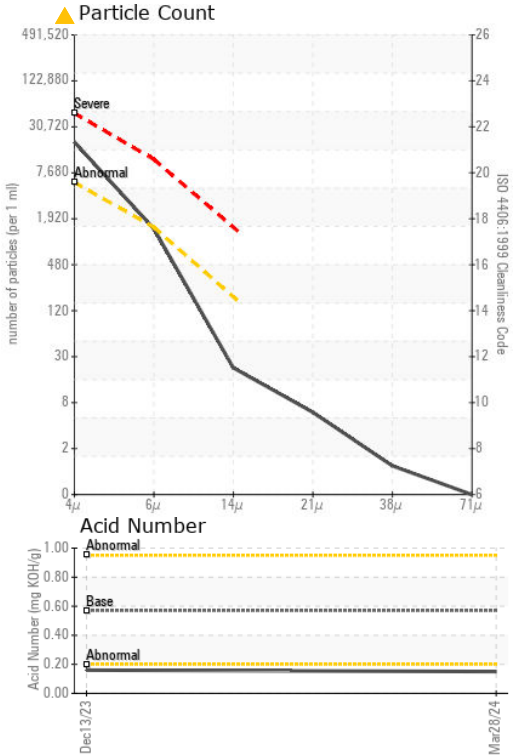
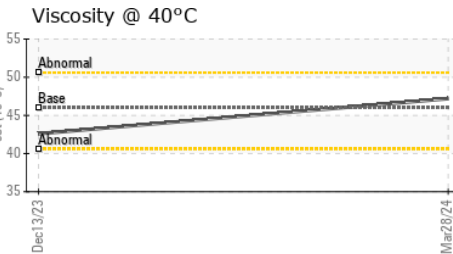
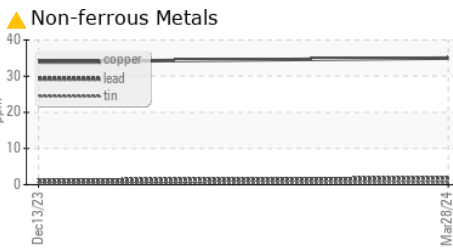
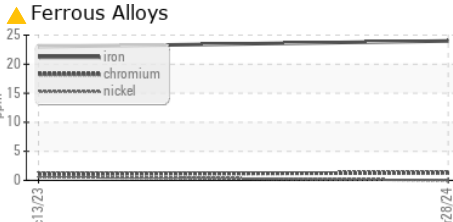
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	0.2%	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.2	42.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0908007 **Received** : 29 Mar 2024  
**Lab Number** : 06133276 **Tested** : 05 Apr 2024  
**Unique Number** : 10952741 **Diagnosed** : 05 Apr 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF )

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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