



# PROBLEM SUMMARY

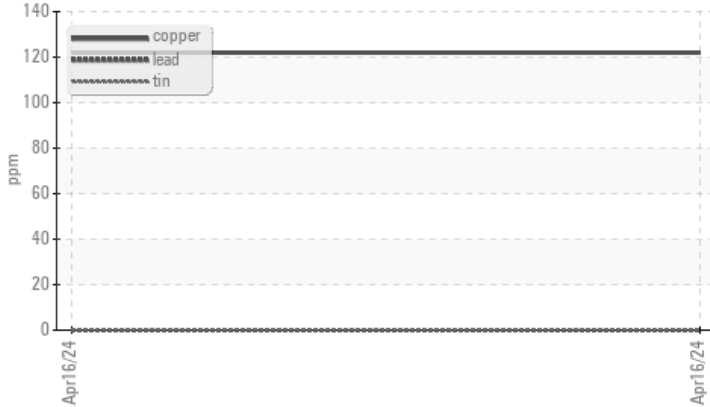
Sample Rating Trend



Machine Id  
**61-PC-24 (S/N 60A)**  
 Component  
**Hydraulic System**  
 Fluid  
**Skydrol (--- LTR)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Chlorine 231 ppm.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Copper ppm ASTM D5185m >20	▲ 122	---	---

Customer Id: WOOSANCA  
 Sample No.: WC0887181  
 Lab Number: 06158209  
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

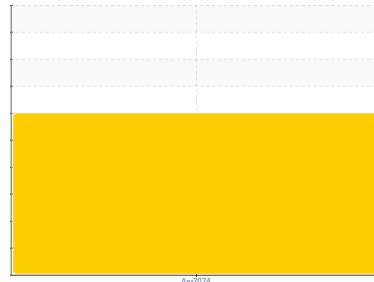
Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**61-PC-24 (S/N 60A)**  
 Component  
**Hydraulic System**  
 Fluid  
**Skydrol (--- LTR)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Chlorine 231 ppm.

### ▲ Wear

The copper level is severe.

### Contamination

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

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0887181</b>	---	---
Sample Date	Client Info		<b>16 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>0</b>	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	---
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	---
Copper	ppm	ASTM D5185m	>20	<b>▲ 122</b>	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Calcium	ppm	ASTM D5185m	110	<b>3</b>	---
Phosphorus	ppm	ASTM D5185m	37	<b>26301</b>	---
Zinc	ppm	ASTM D5185m		<b>44</b>	---
Sulfur	ppm	ASTM D5185m	220	<b>2123</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>0</b>	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	---
Chlorine Content	ppm	ASTM D5185m		<b>231</b>	---
Water	%	ASTM D6304	>0.750	<b>NEG</b>	---

## FLUID CLEANLINESS

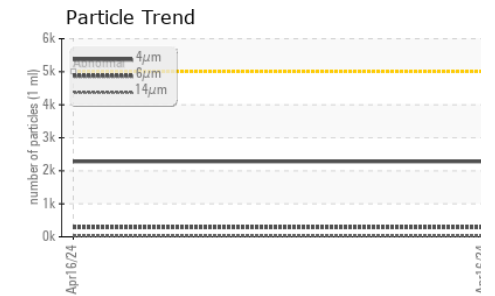
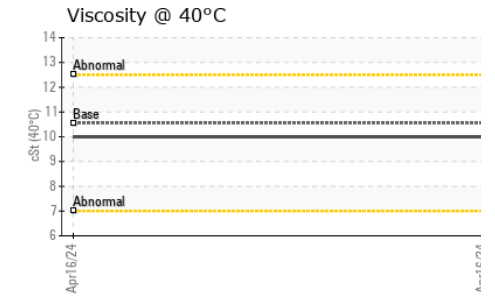
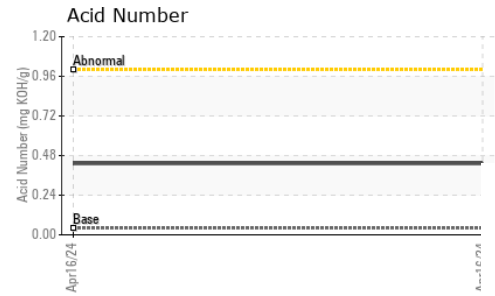
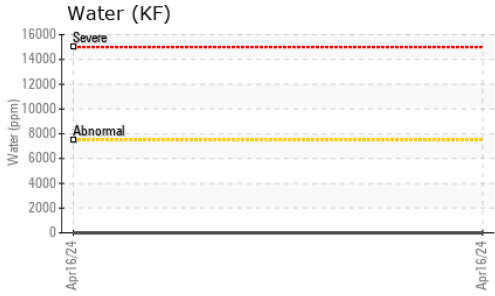
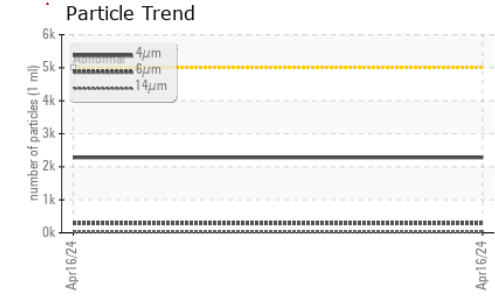
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>2280</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>285</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>25</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>8</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/15/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.04	<b>0.432</b>	---



# OIL ANALYSIS REPORT



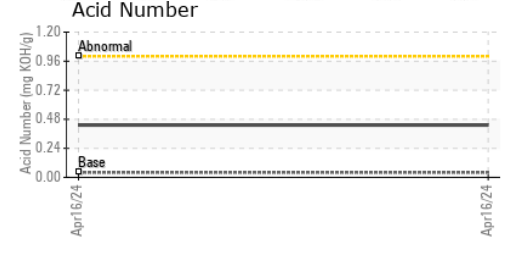
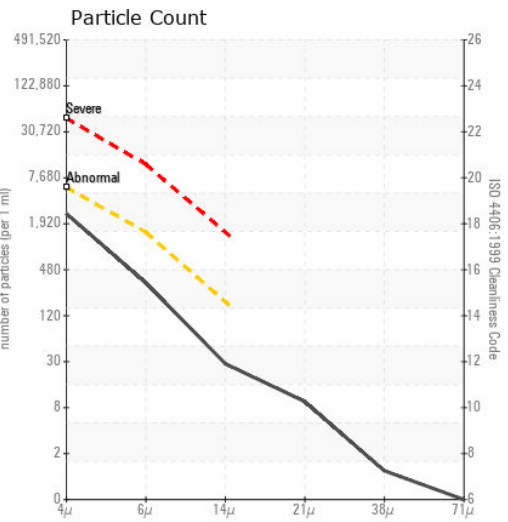
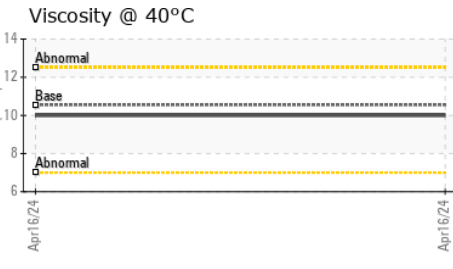
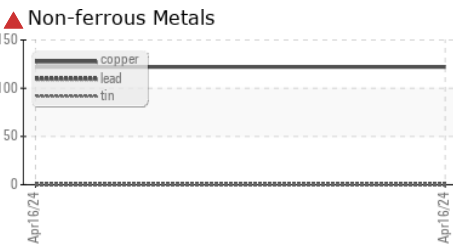
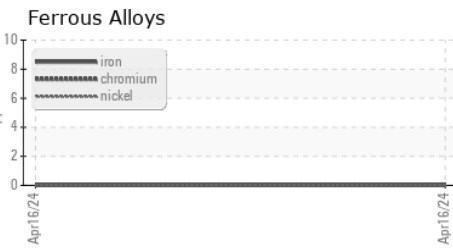
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.750	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	10.55	10.00	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0887181      **Received** : 23 Apr 2024  
**Lab Number** : 06158209      **Tested** : 26 Apr 2024  
**Unique Number** : 10993632      **Diagnosed** : 26 Apr 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: CHLORINEXRF )

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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)