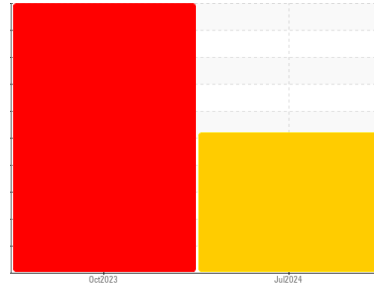




# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**EX CHILLER 2 (NORTH PLANT)**  
 Component  
**Conveyor Gearbox**  
 Fluid  
**JAX SYNGEAR INDUSTRIAL GEAR ISO 320 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

Bearing and/or gear wear is indicated.

### Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>USP0012374</b>	USP0002884	---
Sample Date	Client Info	<b>15 Jul 2024</b>	29 Oct 2023	---
Machine Age	hrs	<b>0</b>	0	---
Oil Age	hrs	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>ABNORMAL</b>	SEVERE	---

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>▲ 108</b>	20	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >10	<b>3</b>	3	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	<b>2</b>	1	---
Lead	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	<b>▲ 172</b>	<b>▲ 200</b>	---
Tin	ppm	ASTM D5185m	<b>▲ 29</b>	<b>▲ 25</b>	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>3</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	<b>4</b>	<1	---
Calcium	ppm	ASTM D5185m	<b>2</b>	0	---
Phosphorus	ppm	ASTM D5185m	<b>605</b>	380	---
Zinc	ppm	ASTM D5185m	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m	<b>877</b>	299	---

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<b>10</b>	1	---
Sodium	ppm	ASTM D5185m	<b>8</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>4</b>	<1	---
Water	%	ASTM D6304 >0.2	<b>0.215</b>	0.008	---
ppm Water	ppm	ASTM D6304 >2000	<b>2160</b>	83.7	---

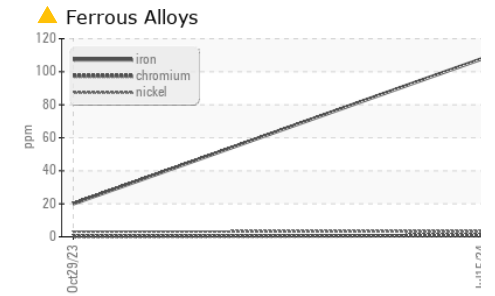
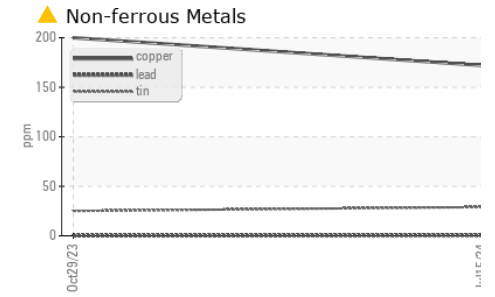
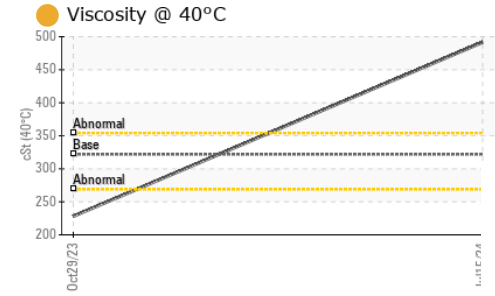
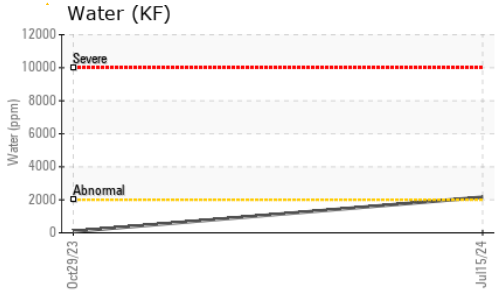
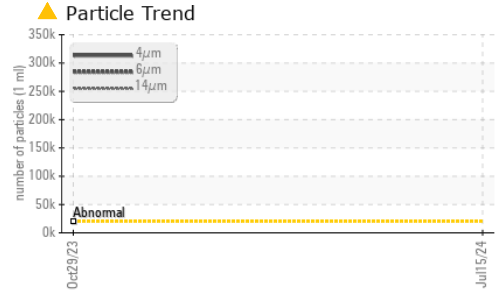
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	<b>▲ 305179</b>	---	---
Particles >6µm	ASTM D7647 >5000	<b>▲ 281721</b>	---	---
Particles >14µm	ASTM D7647 >640	<b>▲ 128836</b>	---	---
Particles >21µm	ASTM D7647 >160	<b>▲ 27451</b>	---	---
Particles >38µm	ASTM D7647 >40	<b>▲ 45</b>	---	---
Particles >71µm	ASTM D7647 >10	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	<b>▲ 25/25/24</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.19</b>	0.43	---

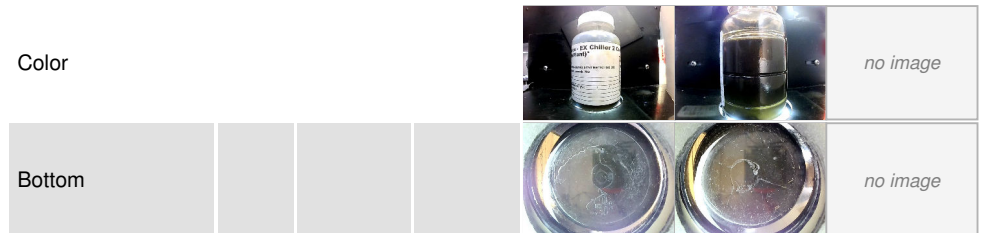
# OIL ANALYSIS REPORT



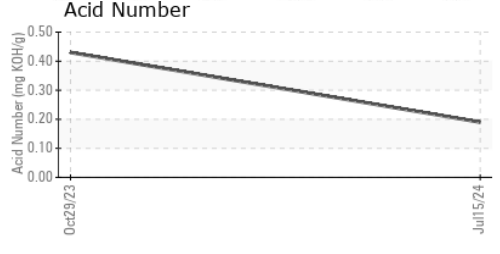
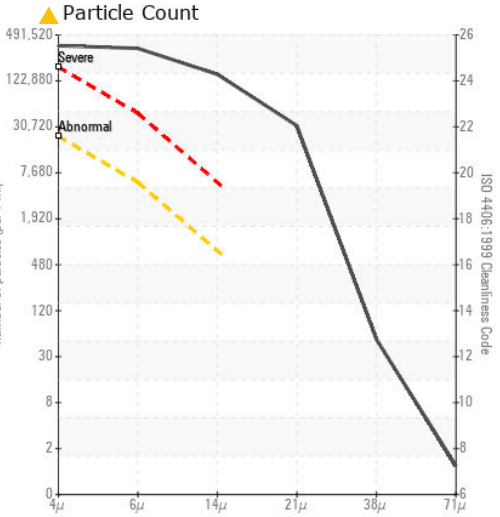
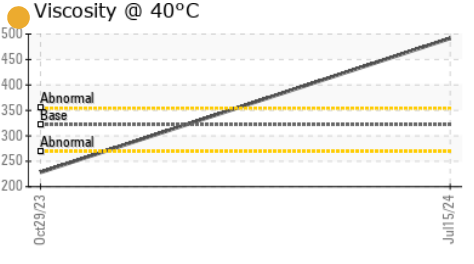
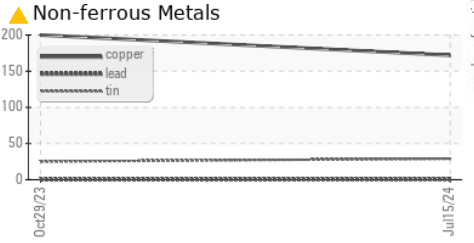
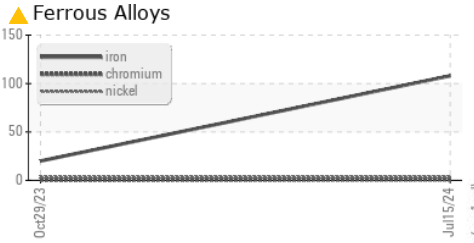
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	▲ HEAVY	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ MODER	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	321.9	● 491.7	● 228.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0012374  
**Lab Number** : 06237821  
**Unique Number** : 11126655  
**Test Package** : IND 2  
**Received** : 16 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Doug Bogart

**TYSON HILLSHIRE - SAINT JOSEPH**  
 5807 MITCHELL AVE  
 SAINT JOSEPH, MO  
 US 64507  
 Contact:

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)