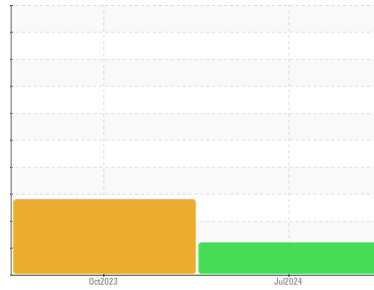




OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Machine Id

EX CHILLER 3 (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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of visible silt present in the sample.

● Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0012369	USP0002887	---
Sample Date	Client Info		15 Jul 2024	29 Oct 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	11	3
Chromium	ppm	ASTM D5185m	>10	<1	0
Nickel	ppm	ASTM D5185m	>10	0	<1
Titanium	ppm	ASTM D5185m		0	<1
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m		0	1
Lead	ppm	ASTM D5185m		0	0
Copper	ppm	ASTM D5185m		8	7
Tin	ppm	ASTM D5185m		<1	<1
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		0	0
Manganese	ppm	ASTM D5185m		0	0
Magnesium	ppm	ASTM D5185m		<1	0
Calcium	ppm	ASTM D5185m		0	0
Phosphorus	ppm	ASTM D5185m		411	499
Zinc	ppm	ASTM D5185m		0	0
Sulfur	ppm	ASTM D5185m		268	244

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<1	<1
Sodium	ppm	ASTM D5185m		<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1
Water	%	ASTM D6304	>0.2	0.049	0.008
ppm Water	ppm	ASTM D6304	>2000	490	82.1

FLUID CLEANLINESS

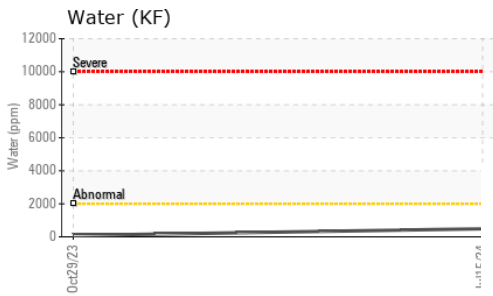
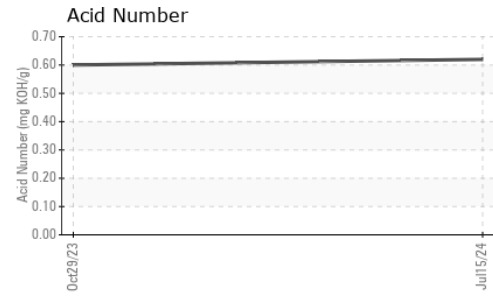
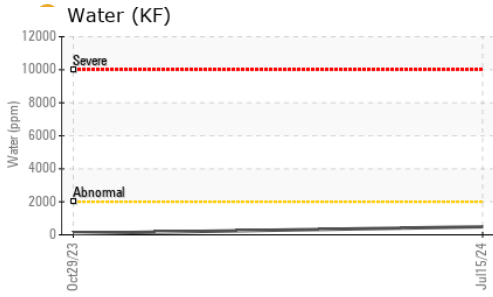
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	▲ 63250	---
Particles >6µm	ASTM D7647	>5000	---	▲ 18466	---
Particles >14µm	ASTM D7647	>640	---	▲ 2112	---
Particles >21µm	ASTM D7647	>160	---	▲ 614	---
Particles >38µm	ASTM D7647	>40	---	▲ 42	---
Particles >71µm	ASTM D7647	>10	---	▲ 5	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	▲ 23/21/18	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.62	0.60



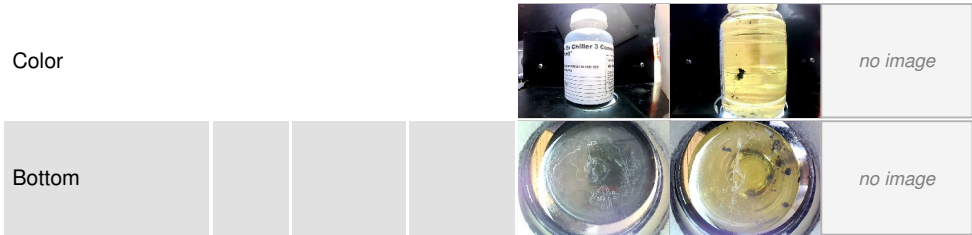
OIL ANALYSIS REPORT



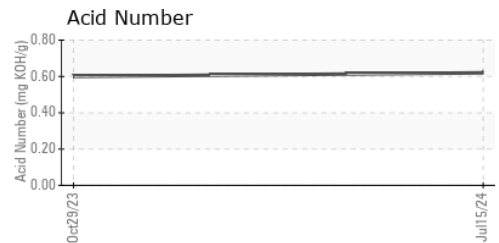
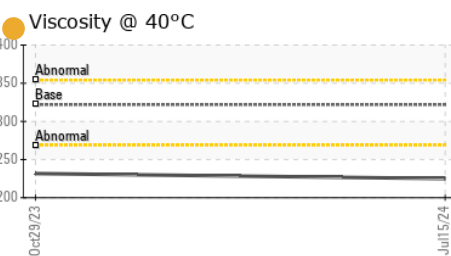
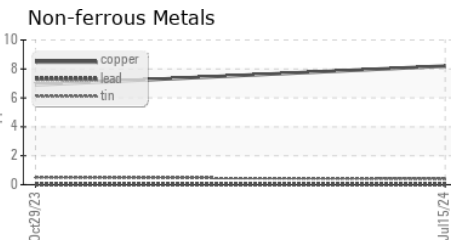
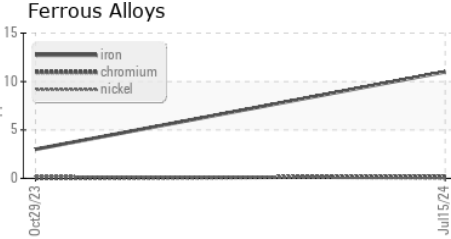
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ HEAVY	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	321.9 ● 225	● 231.7	---

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. : USP0012369
Lab Number : 06237834
Unique Number : 11126668
Test Package : IND 2

Received : 16 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 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)

T:
F: