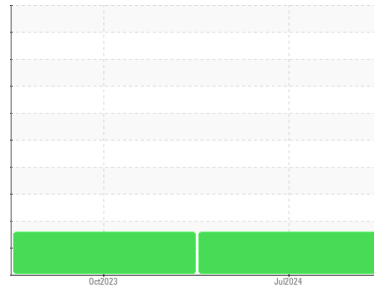




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
EX TRANSFER PUMP (NORTH PLANT)
 Component
Gearbox
 Fluid
JAX SYNGEAR INDUSTRIAL GEAR ISO 320 (--- GAL)

DIAGNOSIS

- Recommendation**
Resample at the next service interval to monitor.
- Wear**
All component wear rates are normal.
- Contamination**
There is a high amount of silt (particulates < 14 microns in size) present in the oil.
- Fluid Condition**
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0012361	USP0002860	---
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	12	10	---
Chromium	ppm	ASTM D5185m	>15	0	0	---
Nickel	ppm	ASTM D5185m	>15	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	1	---
Lead	ppm	ASTM D5185m	>100	0	<1	---
Copper	ppm	ASTM D5185m	>200	0	<1	---
Tin	ppm	ASTM D5185m	>25	0	0	---
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	<1	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		1	<1	---
Calcium	ppm	ASTM D5185m		6	6	---
Phosphorus	ppm	ASTM D5185m		549	543	---
Zinc	ppm	ASTM D5185m		0	5	---
Sulfur	ppm	ASTM D5185m		5667	4794	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	2	4	---
Sodium	ppm	ASTM D5185m		3	<1	---
Potassium	ppm	ASTM D5185m	>20	<1	1	---
Water	%	ASTM D6304	>0.2	0.007	0.004	---
ppm Water	ppm	ASTM D6304	>2000	74	48.9	---

FLUID CLEANLINESS

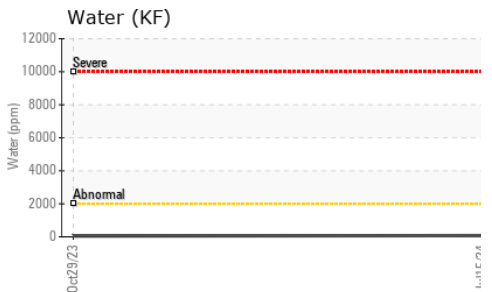
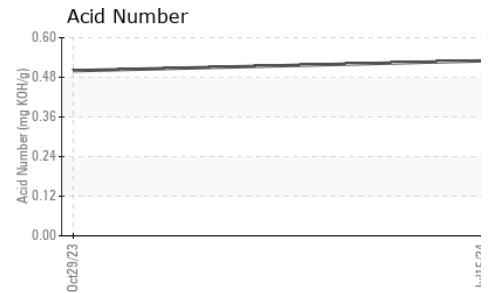
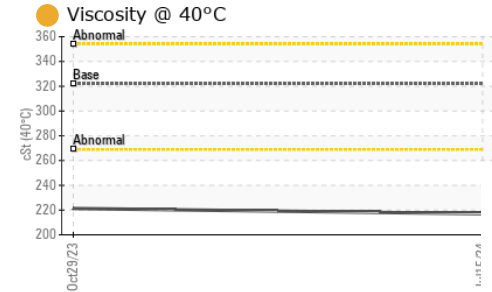
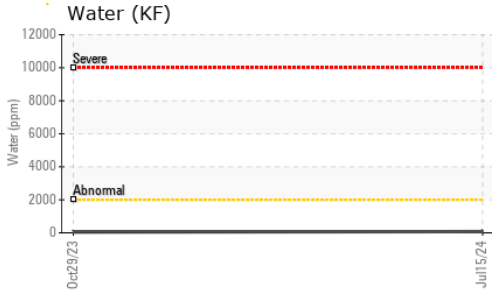
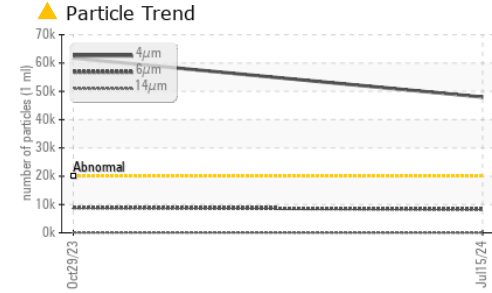
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 47970	▲ 61703	---
Particles >6µm	ASTM D7647	>5000	● 8354	● 8938	---
Particles >14µm	ASTM D7647	>640	52	100	---
Particles >21µm	ASTM D7647	>160	6	10	---
Particles >38µm	ASTM D7647	>40	1	0	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/20/13	▲ 23/20/14	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.53	0.50	---



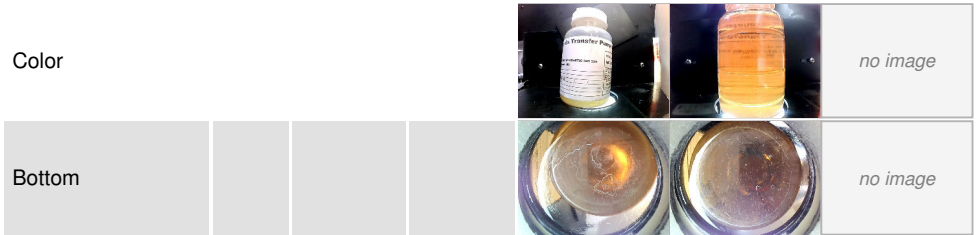
OIL ANALYSIS REPORT



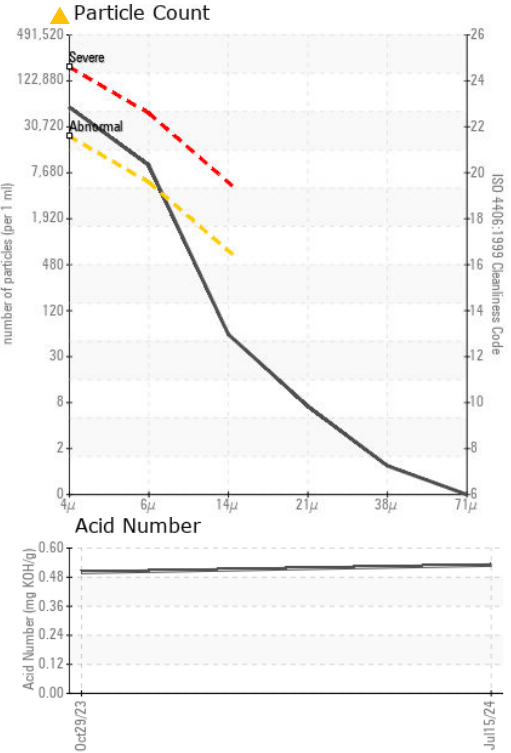
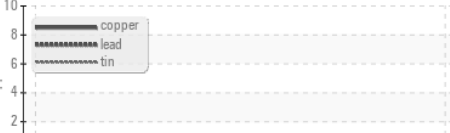
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	217	221.3

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. : USP0012361
 Lab Number : 06237826
 Unique Number : 11126660
 Test Package : IND 2

Received : 16 Jul 2024
 Tested : 17 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: