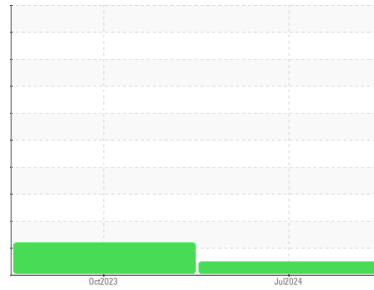




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
QX WATER COOKER (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 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. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0012367	USP0002874	---
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			NORMAL	ATTENTION	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	2	2	---
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	0	1	---
Lead	ppm	ASTM D5185m	>100	0	0	---
Copper	ppm	ASTM D5185m	>200	0	0	---
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	4	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		1	<1	---
Calcium	ppm	ASTM D5185m		159	142	---
Phosphorus	ppm	ASTM D5185m		677	599	---
Zinc	ppm	ASTM D5185m		0	4	---
Sulfur	ppm	ASTM D5185m		732	612	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	8	8	---
Sodium	ppm	ASTM D5185m		2	<1	---
Potassium	ppm	ASTM D5185m	>20	<1	1	---
Water	%	ASTM D6304	>0.2	0.008	0.004	---
ppm Water	ppm	ASTM D6304	>2000	82	42.7	---

FLUID CLEANLINESS

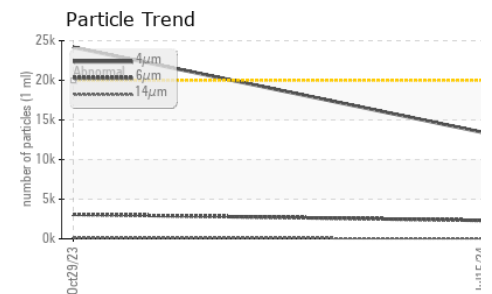
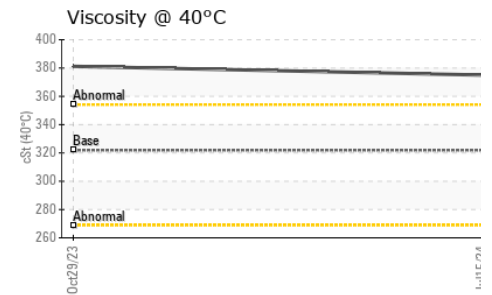
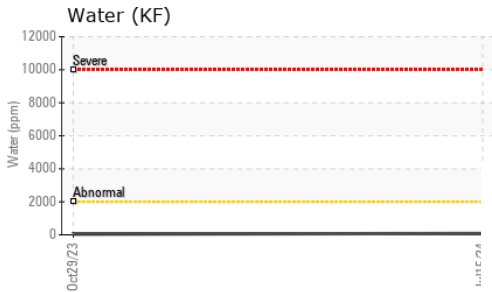
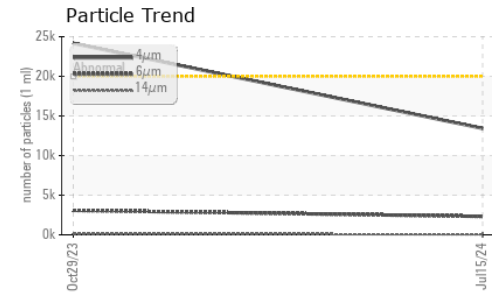
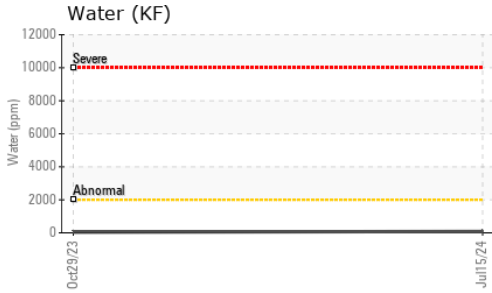
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	13428	● 24168	---
Particles >6µm	ASTM D7647	>5000	2319	3085	---
Particles >14µm	ASTM D7647	>640	60	97	---
Particles >21µm	ASTM D7647	>160	8	23	---
Particles >38µm	ASTM D7647	>40	0	3	---
Particles >71µm	ASTM D7647	>10	0	2	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	21/18/13	● 22/19/14	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.64	0.56	---



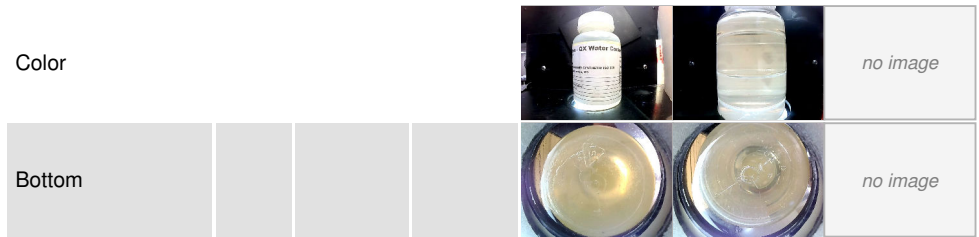
OIL ANALYSIS REPORT



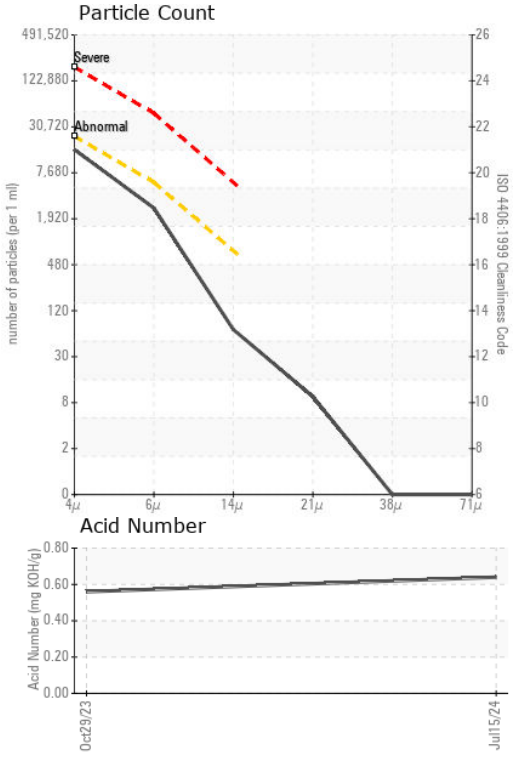
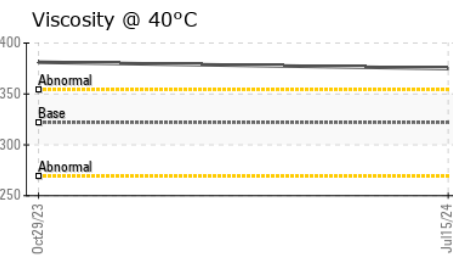
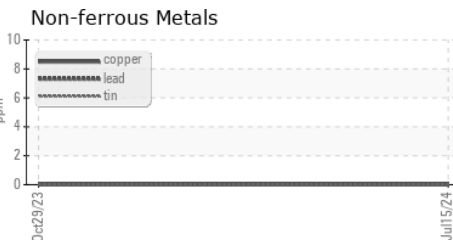
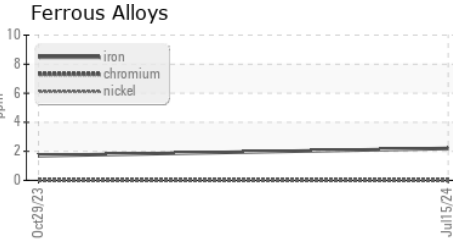
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	321.9	375	381.2

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. : USP0012367
 Lab Number : 06237832
 Unique Number : 11126666
 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)

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F: