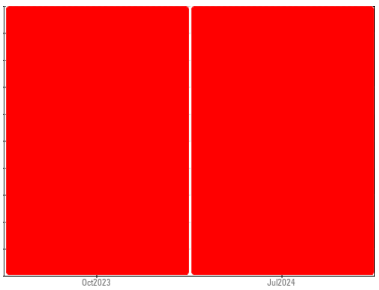
PROBLEM SUMMARY

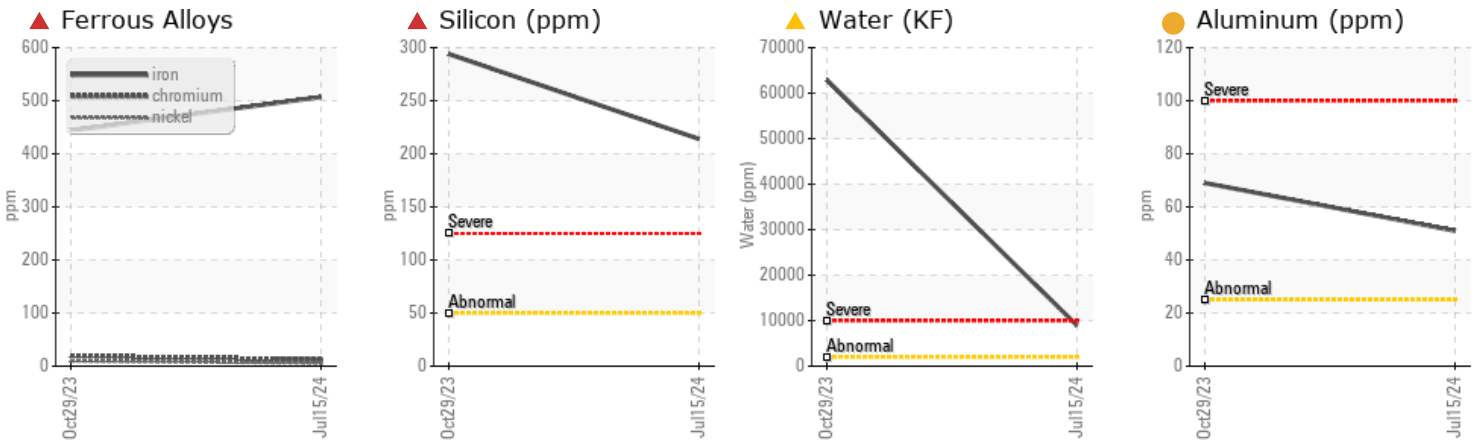
Sample Rating Trend



WEAR

Machine Id
EX SLIP STICK TRANSITION (NORTH PLANT)
Component
Upper Gearbox
Fluid
JAX Flow Guard ISO FG 150 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. Recommend drain oil if not already done and flush before refilling with oil. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of water present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Iron	ppm	ASTM D5185m	>200	▲ **507**	▲ 444	---
Silicon	ppm	ASTM D5185m	>50	▲ **214**	▲ 294	---
Water	%	ASTM D6304	>0.2	▲ **0.892**	▲ 6.29	---
ppm Water	ppm	ASTM D6304	>2000	▲ **8926**	▲ 62900	---

Customer Id: TYSSAI
Sample No.: USP0012376
Lab Number: 06237823
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
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.
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

WEAR

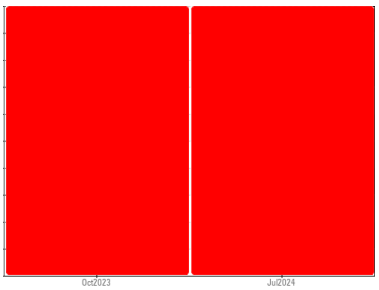
29 Oct 2023 Diag: Doug Bogart

We advise that you check for the source of water entry. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.Gear wear is indicated. Appearance is unacceptable. Sodium and/or potassium levels are high. There is a high amount of visible silt present in the sample. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. Excessive free water present. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
EX SLIP STICK TRANSITION (NORTH PLANT)
Component
Upper Gearbox
Fluid
JAX Flow Guard ISO FG 150 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. Recommend drain oil if not already done and flush before refilling with oil. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of water present in this sample.

Wear
Gear wear is indicated.

Contamination
There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP0012376**	USP0002868	---
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				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **507**	▲ 444	---
Chromium	ppm	ASTM D5185m	>15	**12**	▲ 19	---
Nickel	ppm	ASTM D5185m	>15	**5**	10	---
Titanium	ppm	ASTM D5185m		**2**	3	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	● **51**	● 69	---
Lead	ppm	ASTM D5185m	>100	**<1**	0	---
Copper	ppm	ASTM D5185m	>200	**<1**	1	---
Tin	ppm	ASTM D5185m	>25	**2**	<1	---
Vanadium	ppm	ASTM D5185m		**<1**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

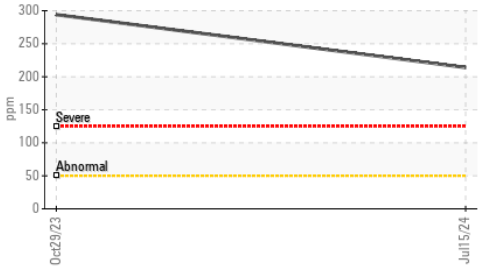
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**109**	139	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	<1	---
Manganese	ppm	ASTM D5185m		**4**	5	---
Magnesium	ppm	ASTM D5185m		**35**	50	---
Calcium	ppm	ASTM D5185m		**2580**	3678	---
Phosphorus	ppm	ASTM D5185m		**597**	549	---
Zinc	ppm	ASTM D5185m		**722**	1521	---
Sulfur	ppm	ASTM D5185m		**1597**	1764	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **214**	▲ 294	---
Sodium	ppm	ASTM D5185m		**2050**	▲ 1717	---
Potassium	ppm	ASTM D5185m	>20	**124**	▲ 166	---
Water	%	ASTM D6304	>0.2	▲ **0.892**	▲ 6.29	---
ppm Water	ppm	ASTM D6304	>2000	▲ **8926**	▲ 62900	---

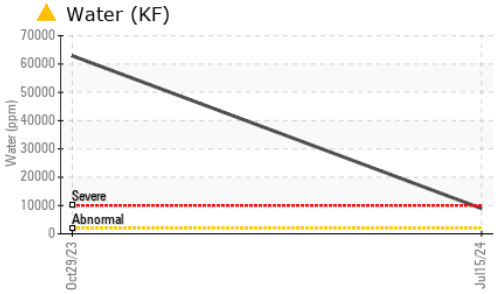
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.28**	1.41	---

OIL ANALYSIS REPORT

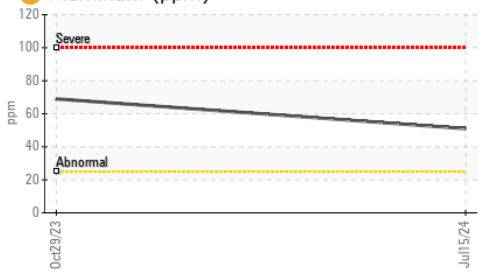
Silicon (ppm)



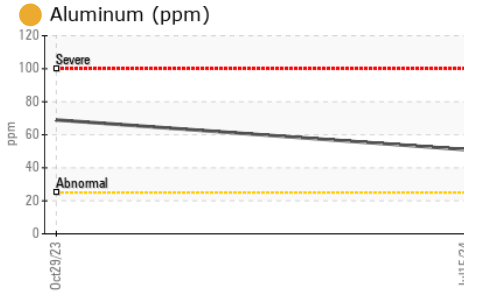
Water (KF)



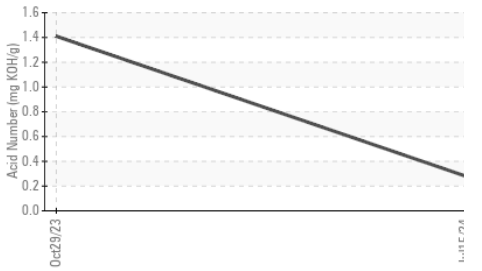
Aluminum (ppm)



Aluminum (ppm)

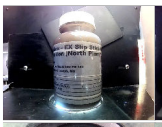


Acid Number



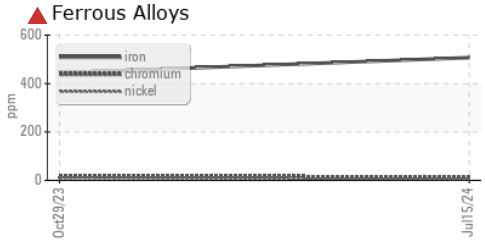
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	▲ HEAVY	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	● **MILKY**	● MILKY	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	▲ 0.2%	---
Free Water	scalar	*Visual		**NEG**	▲ >10%	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**202**	▲ 256	---

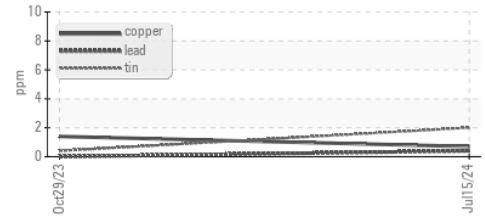
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

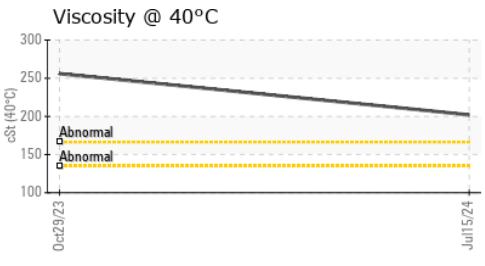
Ferrous Alloys



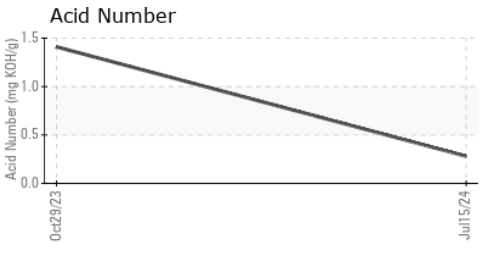
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0012376
Lab Number : 06237823
Unique Number : 11126657
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:
T:
F:

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)