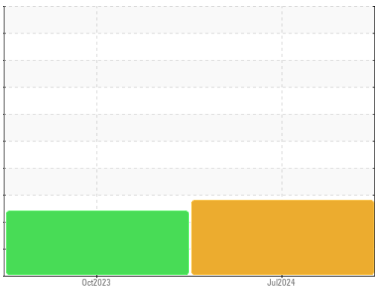
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
EX SLIP STICK 19 (NORTH PLANT)
Component
Gearbox
Fluid
JAX Flow Guard ISO FG 150 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
Gear wear is indicated.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP0012359**	USP0002875	---
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	▲ **204**	36	---
Chromium	ppm	ASTM D5185m	>15	**5**	2	---
Nickel	ppm	ASTM D5185m	>15	**2**	1	---
Titanium	ppm	ASTM D5185m		**5**	2	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	▲ **173**	▲ 62	---
Lead	ppm	ASTM D5185m	>100	**0**	0	---
Copper	ppm	ASTM D5185m	>200	**7**	1	---
Tin	ppm	ASTM D5185m	>25	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**162**	5	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**4**	2	---
Magnesium	ppm	ASTM D5185m		**8**	<1	---
Calcium	ppm	ASTM D5185m		**2889**	134	---
Phosphorus	ppm	ASTM D5185m		**524**	581	---
Zinc	ppm	ASTM D5185m		**1988**	312	---
Sulfur	ppm	ASTM D5185m		**966**	471	---

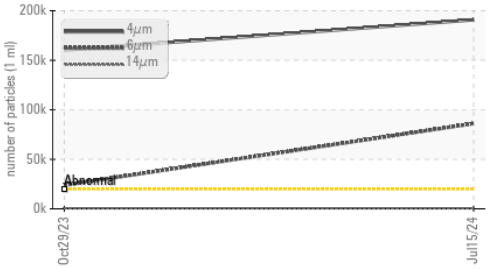
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**27**	13	---
Sodium	ppm	ASTM D5185m		**18**	1	---
Potassium	ppm	ASTM D5185m	>20	**3**	2	---
Water	%	ASTM D6304	>0.2	**0.025**	0.004	---
ppm Water	ppm	ASTM D6304	>2000	**254**	48.9	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **190839**	▲ 160067	---
Particles >6µm		ASTM D7647	>5000	▲ **86084**	▲ 23901	---
Particles >14µm		ASTM D7647	>640	**566**	540	---
Particles >21µm		ASTM D7647	>160	**106**	104	---
Particles >38µm		ASTM D7647	>40	**9**	7	---
Particles >71µm		ASTM D7647	>10	**1**	2	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **25/24/16**	▲ 25/22/16	---

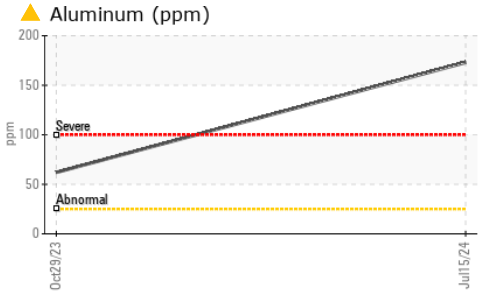
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.20**	0.51	---

OIL ANALYSIS REPORT

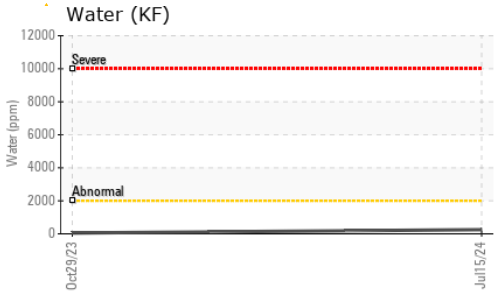
Particle Trend



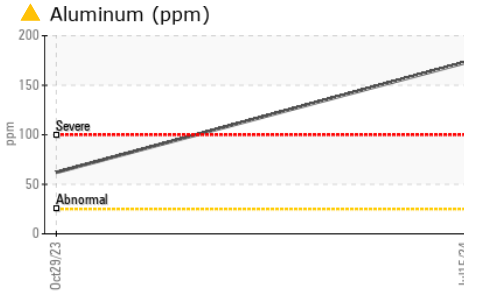
Aluminum (ppm)



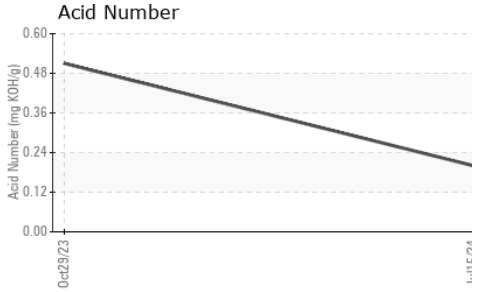
Water (KF)



Aluminum (ppm)



Acid Number



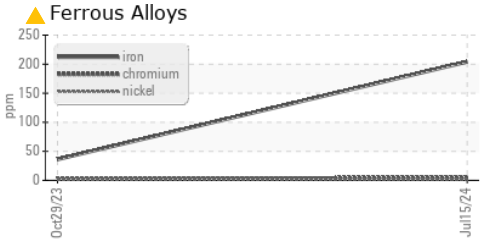
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt	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		**263**	234.1	---

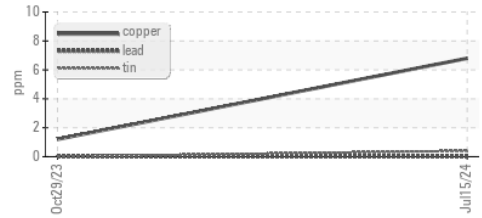
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GRAPHS

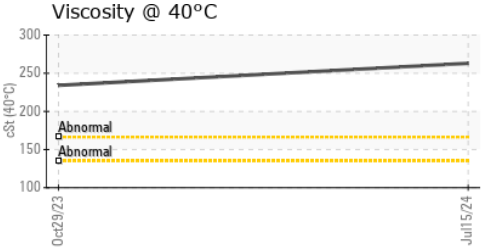
Ferrous Alloys



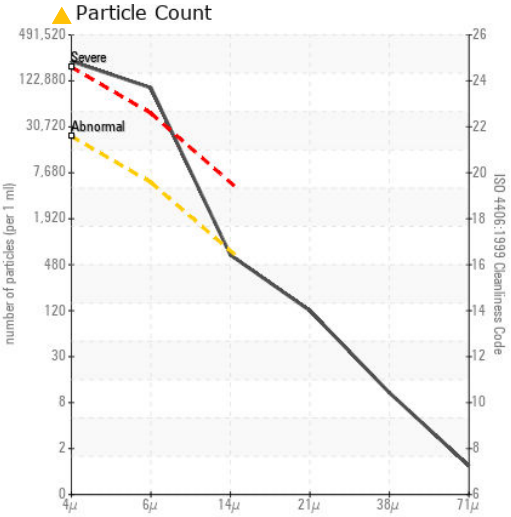
Non-ferrous Metals



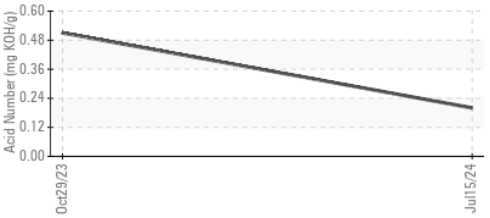
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0012359
Lab Number : 06237824
Unique Number : 11126658
Test Package : IND 2

Received : 16 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 18 Jul 2024 - Doug Bogart

Certificate L2367

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)