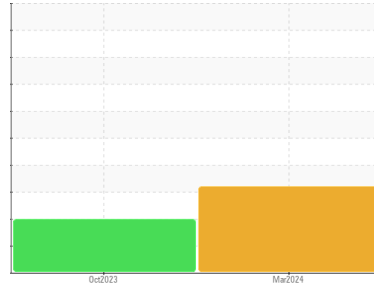




PROBLEM SUMMARY

Sample Rating Trend



WATER

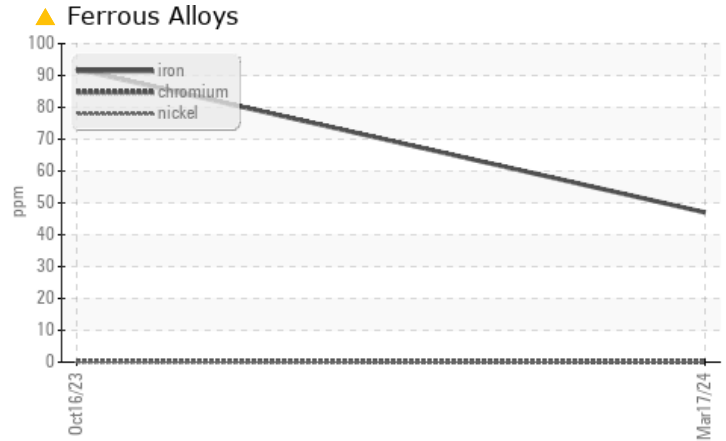
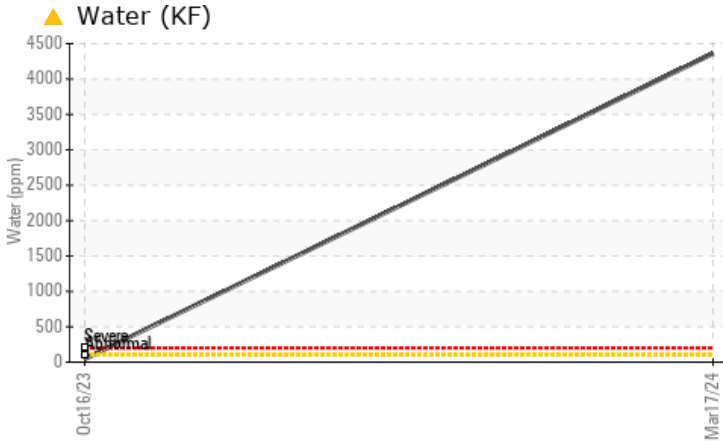


Machine Id
RC-4 (S/N 0075)

Component
Refrigeration Compressor

Fluid
FRICK COMPRESSOR OIL #11 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. 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.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>8	▲ 47	▲ 92	---
Water	%	ASTM D6304	>0.01	▲ 0.435	0.004	---
ppm Water	ppm	ASTM D6304	>100	▲ 4359	44.4	---
Silt	scalar	*Visual	NONE	▲ MODER	NONE	---
Emulsified Water	scalar	*Visual	>0.01	▲ 0.2%	NEG	---

Customer Id: TYSKEYGAD
Sample No.: USP0006077
Lab Number: 06121626
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
Change Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

16 Oct 2023 Diag: Doug Bogart

WEAR



We recommend an early resample to monitor this condition. Elemental data confirmed. The iron level is abnormal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

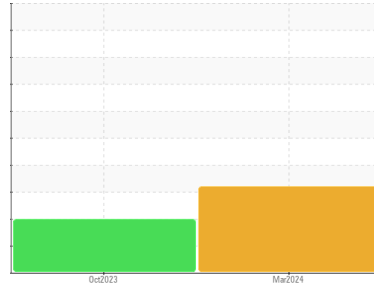
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
RC-4 (S/N 0075)
 Component
Refrigeration Compressor
 Fluid
FRICK COMPRESSOR OIL #11 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. 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

The iron level has decreased but is still abnormal.

▲ Contamination

There is a light concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

Fluid Condition

An increase in the AN level is noted. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USP0006077	USP0002999	---
Sample Date	Client Info	17 Mar 2024	16 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	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	▲ 47	▲ 92
Chromium	ppm	ASTM D5185m >2	0	<1
Nickel	ppm	ASTM D5185m	0	<1
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m >2	0	0
Aluminum	ppm	ASTM D5185m >3	0	0
Lead	ppm	ASTM D5185m >2	0	0
Copper	ppm	ASTM D5185m >8	0	1
Tin	ppm	ASTM D5185m >4	0	0
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	<1
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	0	0
Magnesium	ppm	ASTM D5185m	0	<1
Calcium	ppm	ASTM D5185m	3	36
Phosphorus	ppm	ASTM D5185m	0	0
Zinc	ppm	ASTM D5185m	6	25
Sulfur	ppm	ASTM D5185m	0	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	1
Sodium	ppm	ASTM D5185m	0	0
Potassium	ppm	ASTM D5185m >20	0	1
Water	%	ASTM D6304 >0.01	▲ 0.435	0.004
ppm Water	ppm	ASTM D6304 >100	▲ 4359	44.4

FLUID CLEANLINESS

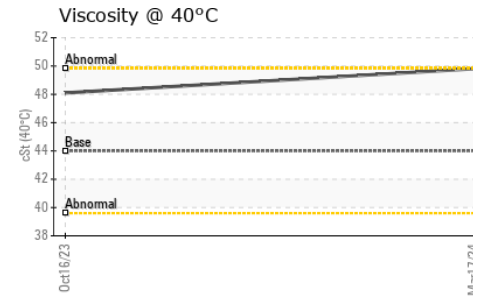
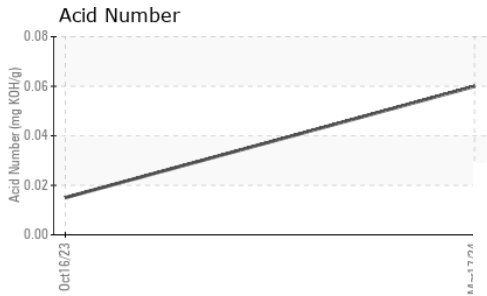
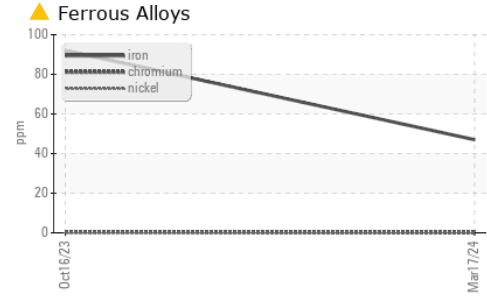
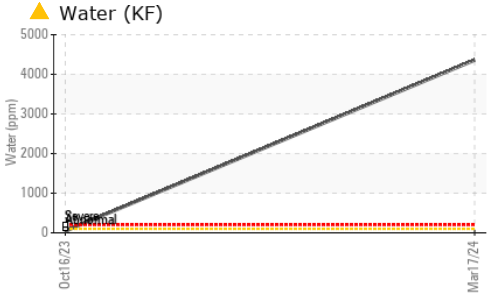
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	---	▲ 103978	---
Particles >6µm	ASTM D7647 >2500	---	▲ 9945	---
Particles >14µm	ASTM D7647 >320	---	40	---
Particles >21µm	ASTM D7647 >80	---	6	---
Particles >38µm	ASTM D7647 >20	---	0	---
Particles >71µm	ASTM D7647 >4	---	0	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	---	▲ 24/20/12	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.06	0.015



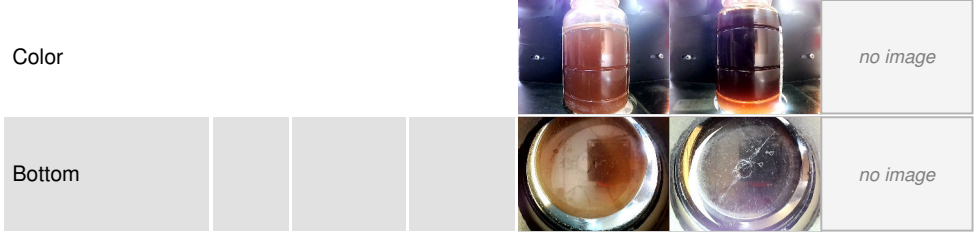
OIL ANALYSIS REPORT



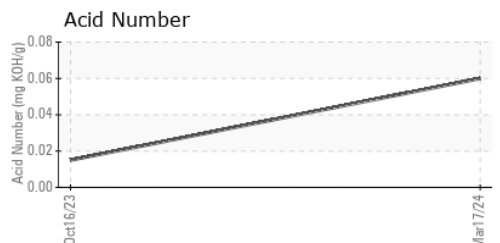
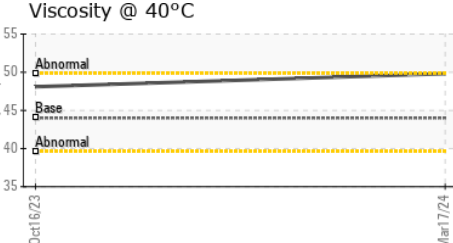
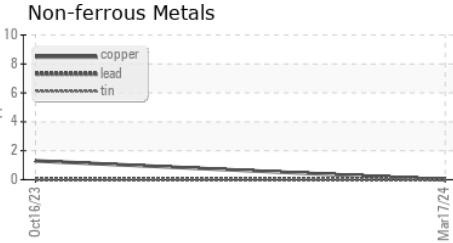
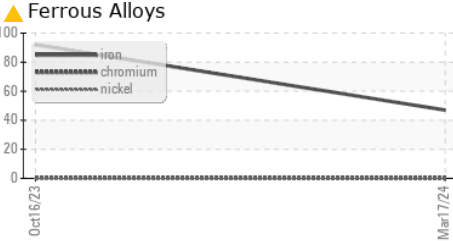
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ MODER	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.01	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.0	49.81	48.1

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. : USP0006077 **Received** : 18 Mar 2024
Lab Number : 06121626 **Tested** : 25 Mar 2024
Unique Number : 10930459 **Diagnosed** : 25 Mar 2024 - Doug Bogart
Test Package : IND 2

TYSON KEYSTONE - GADSDEN
 2281 STEELE STATION RD
 RAINBOW CITY, AL
 US 35906
 Contact: Service Manager

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: