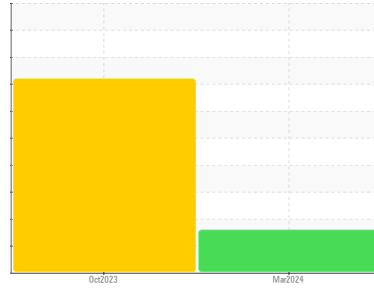




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**RC-1 (S/N 0046)**  
 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 remains abnormal.

### Contamination

There is a moderate amount of visible silt present in the sample.

### 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		<b>USP0006081</b>	USP0003003	---
Sample Date	Client Info		<b>17 Mar 2024</b>	16 Oct 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	SEVERE	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	<b>▲ 185</b>	▲ 186	---
Chromium	ppm	ASTM D5185m >2	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m >2	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >8	<b>2</b>	3	---
Tin	ppm	ASTM D5185m >4	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>1</b>	1	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m	<b>4</b>	4	---
Phosphorus	ppm	ASTM D5185m	<b>0</b>	0	---
Zinc	ppm	ASTM D5185m	<b>24</b>	20	---
Sulfur	ppm	ASTM D5185m	<b>0</b>	0	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>1</b>	2	---
Sodium	ppm	ASTM D5185m	<b>2</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	1	---
Water	%	ASTM D6304 >0.01	<b>0.003</b>	0.002	---
ppm Water	ppm	ASTM D6304 >100	<b>36</b>	24.6	---

## FLUID CLEANLINESS

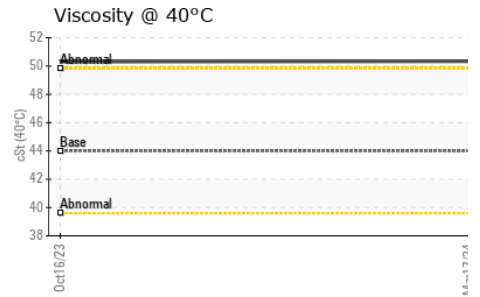
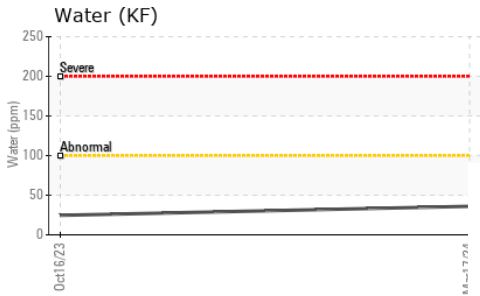
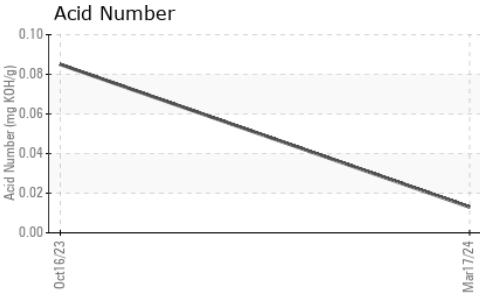
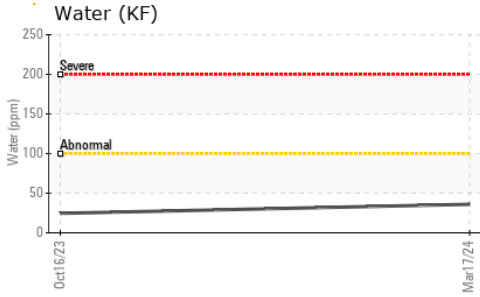
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	---	▲ 168671	---
Particles >6µm	ASTM D7647	>2500	---	▲ 17440	---
Particles >14µm	ASTM D7647	>320	---	39	---
Particles >21µm	ASTM D7647	>80	---	5	---
Particles >38µm	ASTM D7647	>20	---	0	---
Particles >71µm	ASTM D7647	>4	---	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	---	▲ 25/21/12	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	<b>0.013</b>	0.085	---



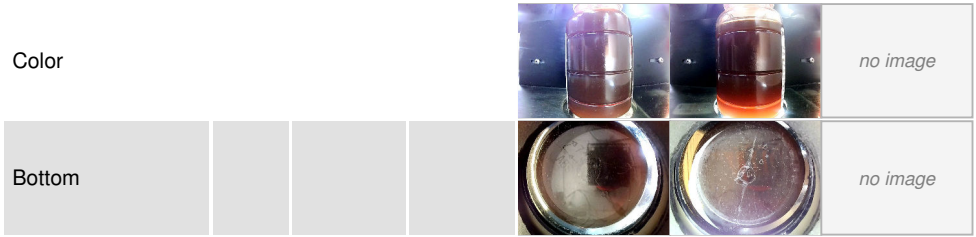
# OIL ANALYSIS REPORT



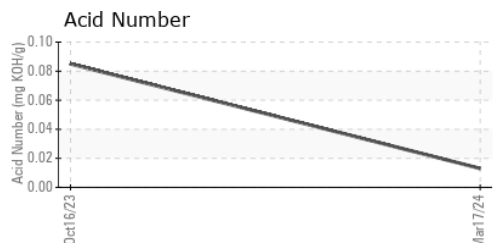
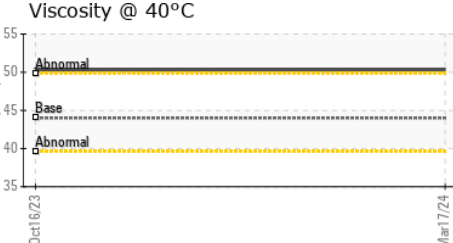
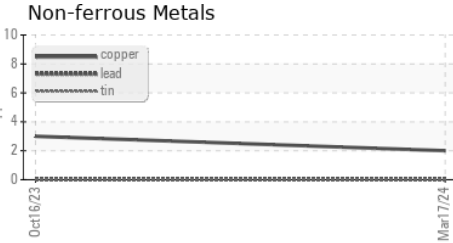
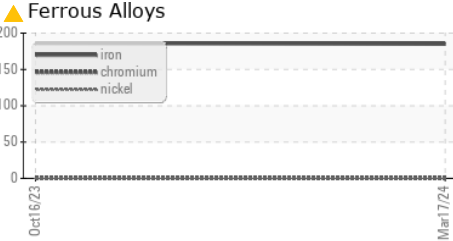
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ MODER	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.0	50.33	50.3

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.** : USP0006081 **Received** : 18 Mar 2024  
**Lab Number** : 06121623 **Tested** : 21 Mar 2024  
**Unique Number** : 10930456 **Diagnosed** : 21 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: