



# PROBLEM SUMMARY

Sample Rating Trend



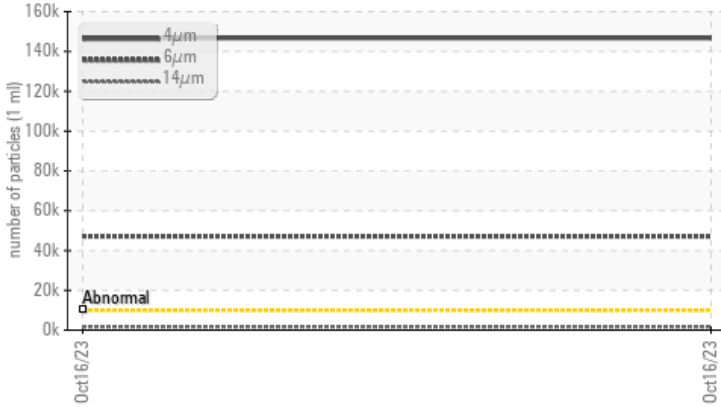
ISO



Machine Id  
**RC-7 (S/N 0644)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**FRICK COMPRESSOR OIL #11 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	---	---
Particles >4µm	ASTM D7647	>10000	▲ <b>146713</b>	---	---
Particles >6µm	ASTM D7647	>2500	▲ <b>47119</b>	---	---
Particles >14µm	ASTM D7647	>320	▲ <b>1609</b>	---	---
Particles >21µm	ASTM D7647	>80	▲ <b>226</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>24/23/18</b>	---	---

Customer Id: TYSKEYGAD  
 Sample No.: USP0002994  
 Lab Number: 05996777  
 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](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

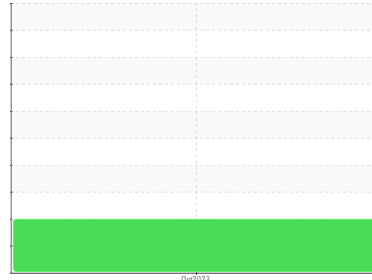
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

**RC-7 (S/N 0644)**

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.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of particulates present in the oil.

### 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>USP0002994</b>	---	---
Sample Date	Client Info	<b>16 Oct 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

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

## ADDITIVES

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

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>3</b>	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	---
Water	%	ASTM D6304 >0.01	<b>0.002</b>	---
ppm Water	ppm	ASTM D6304 >100	<b>23.7</b>	---

## FLUID CLEANLINESS

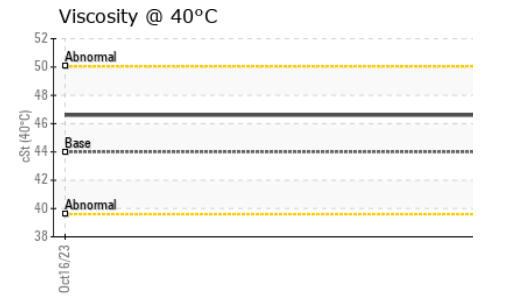
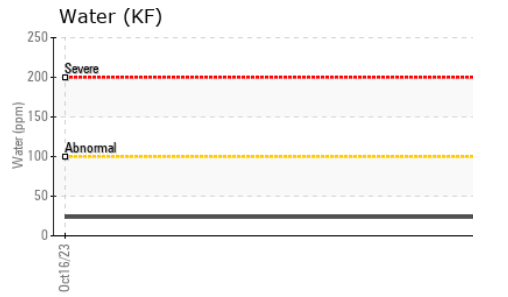
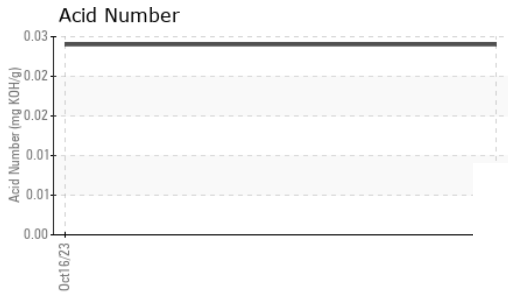
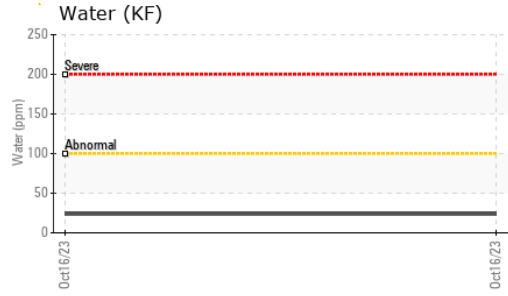
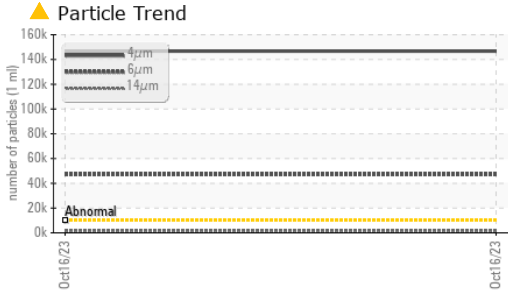
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 146713</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>▲ 47119</b>	---	---
Particles >14µm	ASTM D7647 >320	<b>▲ 1609</b>	---	---
Particles >21µm	ASTM D7647 >80	<b>▲ 226</b>	---	---
Particles >38µm	ASTM D7647 >20	<b>3</b>	---	---
Particles >71µm	ASTM D7647 >4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>▲ 24/23/18</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	<b>0.024</b>	---



# OIL ANALYSIS REPORT



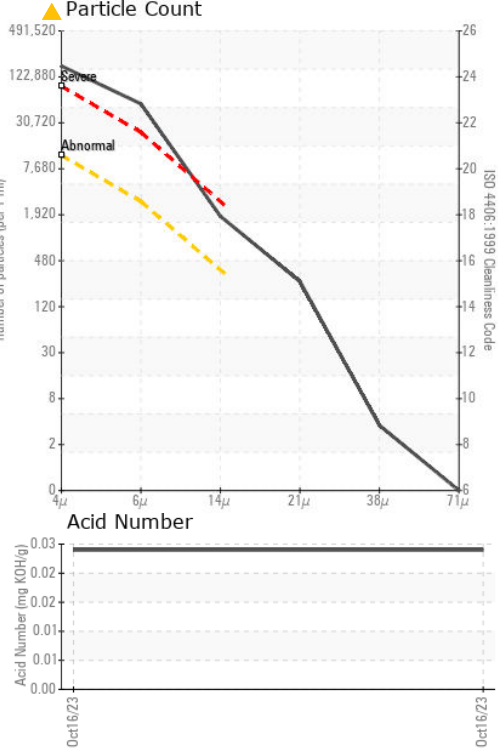
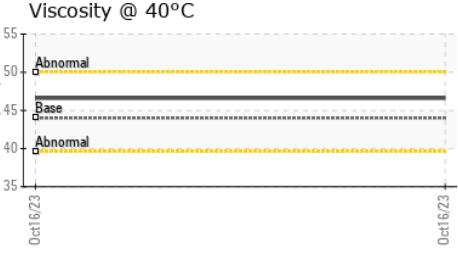
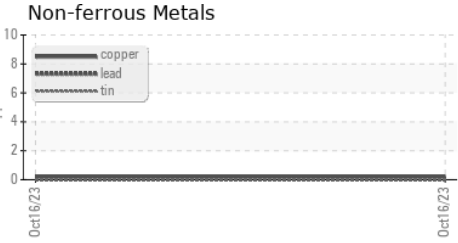
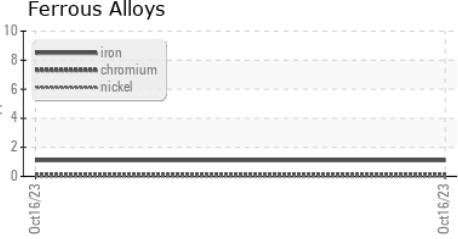
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	46.6	---

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

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0002994 **Received** : 02 Nov 2023  
**Lab Number** : 05996777 **Diagnosed** : 06 Nov 2023  
**Unique Number** : 10725137 **Diagnostician** : 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)