

# PROBLEM SUMMARY

Sample Rating Trend



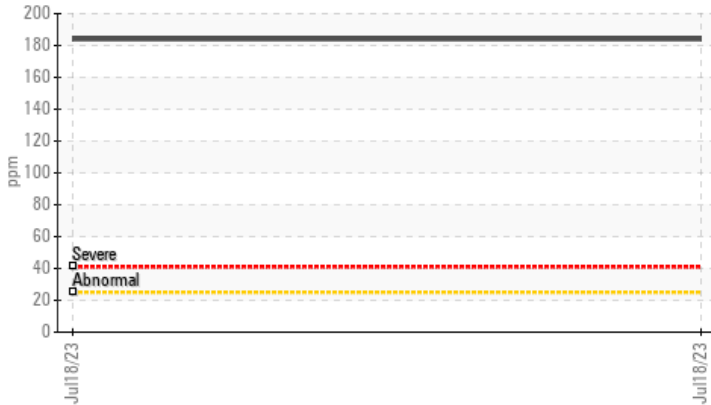
Machine Id  
**PRESS 24**

Component  
**Heat Transfer Fluid**

Fluid  
**ROYAL PURPLE HY-THERM 707 (--- QTS)**

## COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Silicon	ppm	ASTM D5185m	>25	▲ 184	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---

Customer Id: KONGOL  
Sample No.: RP0033150  
Lab Number: 05902284  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

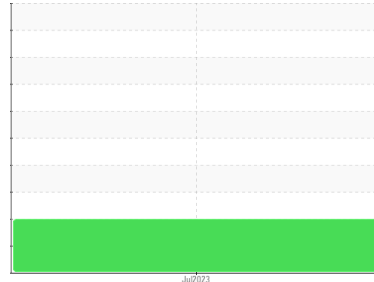
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id

**PRESS 24**

Component

**Heat Transfer Fluid**

Fluid

**ROYAL PURPLE HY-THERM 707 (--- QTS)**

## 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

Elemental level of silicon (Si) above normal indicating ingress of seal material. Moderate concentration of visible dirt/debris present in the fluid. The water content is negligible. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0033150</b>	---	---
Sample Date	Client Info		<b>18 Jul 2023</b>	---	---
Machine Age	hrs	Client Info	<b>9647</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	>200	<b>0</b>	---
Chromium	ppm	ASTM D5185m	>21	<b>0</b>	---
Nickel	ppm	ASTM D5185m	>21	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m	>21	<b>0</b>	---
Silver	ppm	ASTM D5185m	>21	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>21	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185m	>21	<b>0</b>	---
Copper	ppm	ASTM D5185m	>21	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185m	>21	<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>0</b>	---
Calcium	ppm	ASTM D5185m		<b>34</b>	---
Phosphorus	ppm	ASTM D5185m		<b>0</b>	---
Zinc	ppm	ASTM D5185m		<b>0</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>▲ 184</b>	---
Sodium	ppm	ASTM D5185m	>21	<b>0</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---
Water	%	ASTM D6304	>0.0601	<b>0.002</b>	---
ppm Water	ppm	ASTM D6304	>601	<b>15.4</b>	---

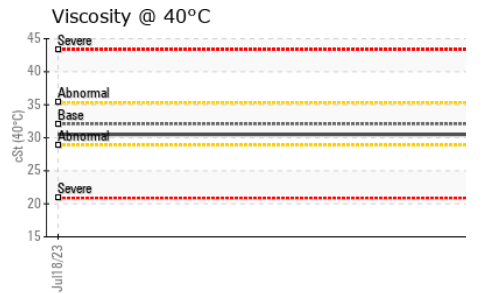
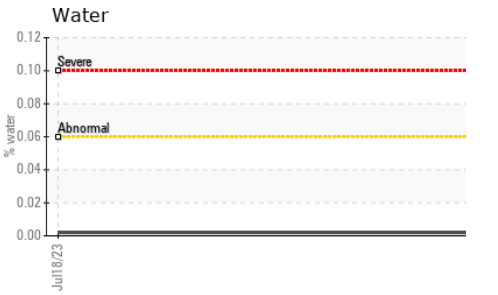
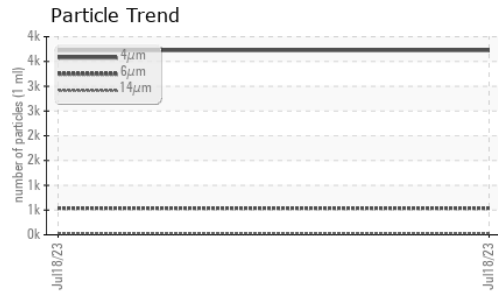
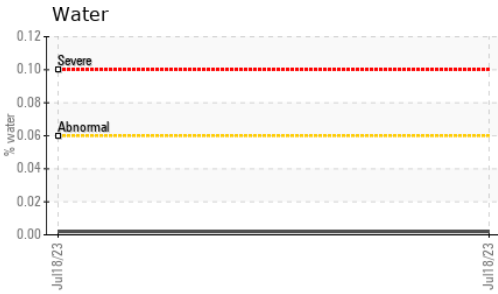
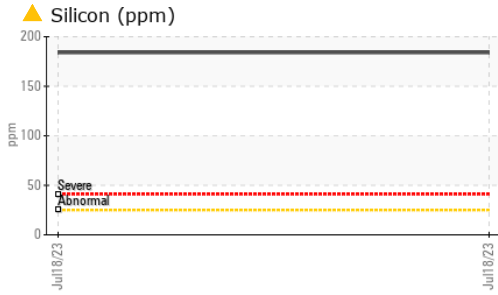
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>3725</b>	---	---
Particles >6µm	ASTM D7647	>10240000	<b>537</b>	---	---
Particles >14µm	ASTM D7647	>10240000	<b>29</b>	---	---
Particles >21µm	ASTM D7647	>25600000	<b>8</b>	---	---
Particles >38µm	ASTM D7647	>6400000	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>1600000	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/30/30	<b>19/16/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.093</b>	---

# OIL ANALYSIS REPORT



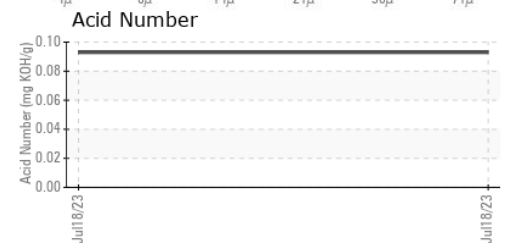
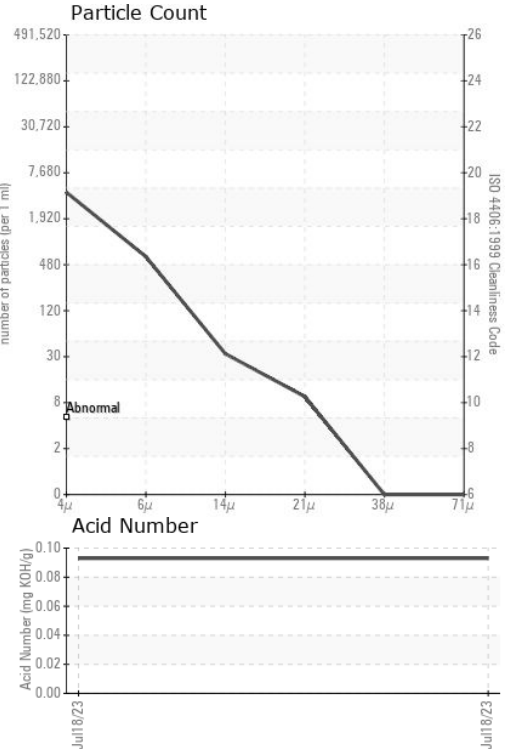
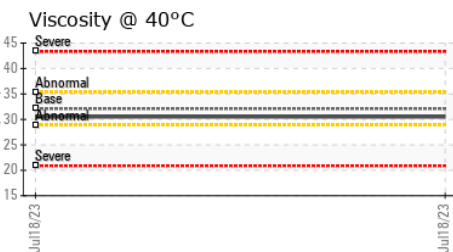
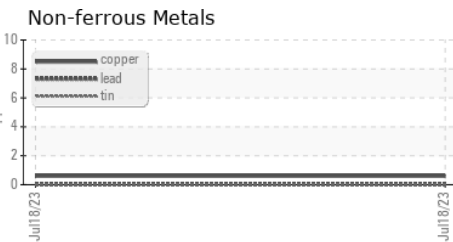
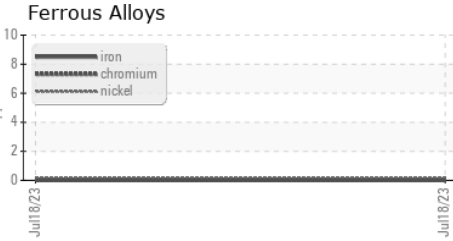
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.0601	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.1	30.5	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0033150 **Received** : 19 Jul 2023  
**Lab Number** : 05902284 **Diagnosed** : 21 Jul 2023  
**Unique Number** : 10563640 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**KONG**  
 16191 TABLE MOUNTAIN PKWY  
 GOLDEN, CO  
 US 80403  
 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: