

# PROBLEM SUMMARY

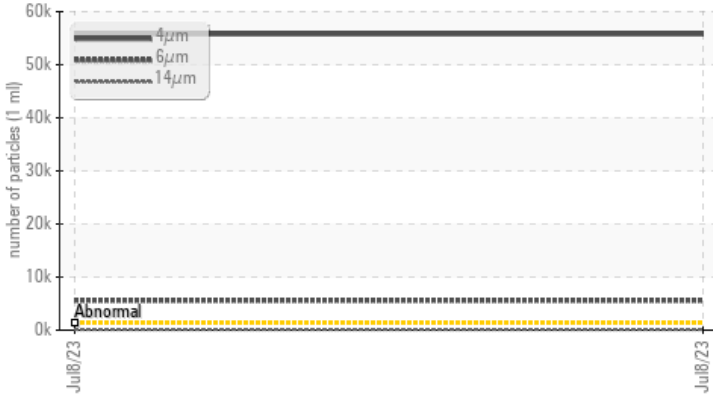
Area  
**PROCESS CHEESE [98316341]**  
 Machine Id  
**NORTH/SOUTH SCREW FEED**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 320 (--- GAL)**

Sample Rating Trend



## 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	>1300	▲ <b>55767</b>	---	---
Particles >6µm	ASTM D7647	>320	▲ <b>5594</b>	---	---
Particles >14µm	ASTM D7647	>80	▲ <b>118</b>	---	---
Particles >21µm	ASTM D7647	>20	▲ <b>25</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ <b>23/20/14</b>	---	---

Customer Id: KRASPRMO  
 Sample No.: PCA0100120  
 Lab Number: 05898561  
 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)

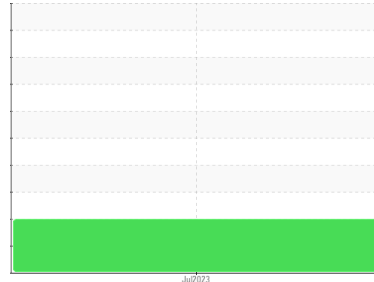
## RECOMMENDED ACTIONS

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



ISO



Area  
**PROCESS CHEESE [98316341]**  
 Machine Id  
**NORTH/SOUTH SCREW FEED**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 320 (--- 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>PCA0100120</b>	---	---
Sample Date	Client Info	<b>08 Jul 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>200	<b>14</b>	---	---
Chromium ppm ASTM D5185m	>15	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m	>15	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>0</b>	---	---
Lead ppm ASTM D5185m	>100	<b>0</b>	---	---
Copper ppm ASTM D5185m	>200	<b>0</b>	---	---
Tin ppm ASTM D5185m	>25	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	50	<b>0</b>	---	---
Barium ppm ASTM D5185m	15	<b>0</b>	---	---
Molybdenum ppm ASTM D5185m	15	<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m	50	<b>2</b>	---	---
Calcium ppm ASTM D5185m	50	<b>0</b>	---	---
Phosphorus ppm ASTM D5185m	350	<b>190</b>	---	---
Zinc ppm ASTM D5185m	100	<b>0</b>	---	---
Sulfur ppm ASTM D5185m	12500	<b>10</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>11</b>	---	---
Sodium ppm ASTM D5185m		<b>3</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>2</b>	---	---

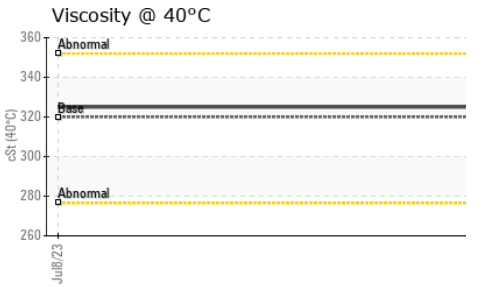
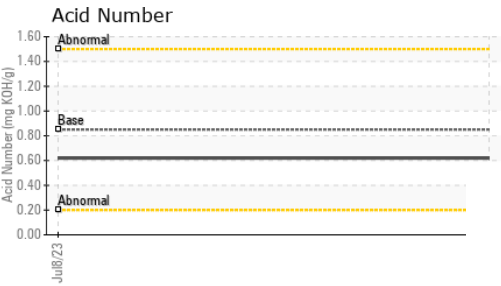
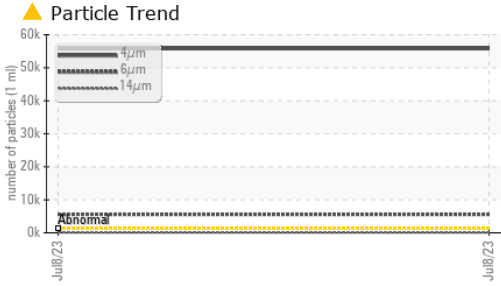
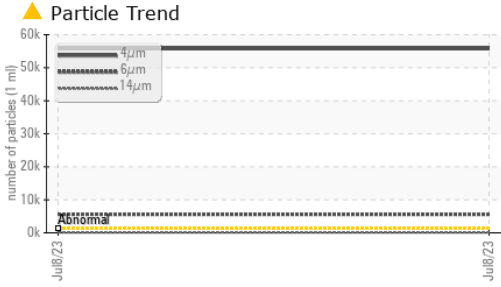
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>1300	<b>▲ 55767</b>	---	---
Particles >6µm ASTM D7647	>320	<b>▲ 5594</b>	---	---
Particles >14µm ASTM D7647	>80	<b>▲ 118</b>	---	---
Particles >21µm ASTM D7647	>20	<b>▲ 25</b>	---	---
Particles >38µm ASTM D7647	>4	<b>2</b>	---	---
Particles >71µm ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>17/15/13	<b>▲ 23/20/14</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.85	<b>0.62</b>	---	---

# OIL ANALYSIS REPORT



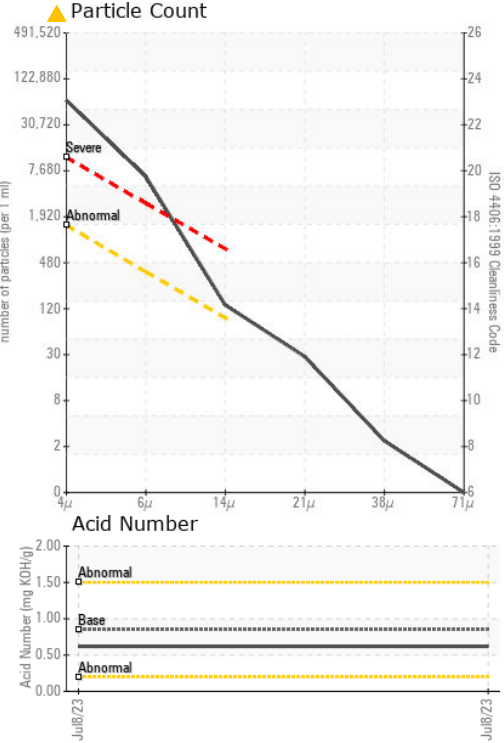
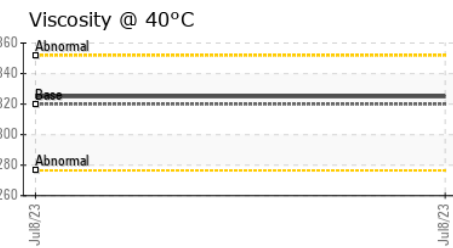
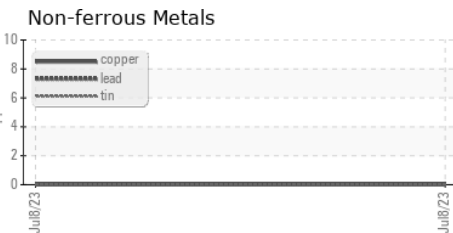
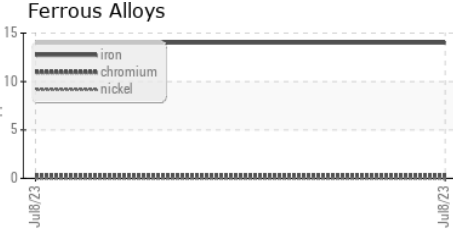
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	325	---

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.** : PCA0100120 **Received** : 14 Jul 2023  
**Lab Number** : 05898561 **Diagnosed** : 17 Jul 2023  
**Unique Number** : 10559917 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**KraftHeinz - Springfield - Plant 8311 PCA**  
 2035 E BENNETT  
 SPRINGFIELD, MO  
 US 65804  
 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: