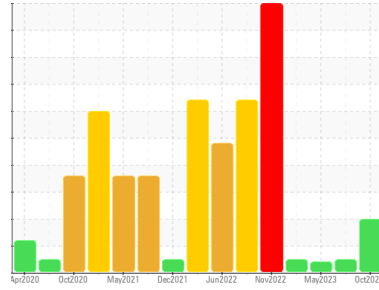


# PROBLEM SUMMARY

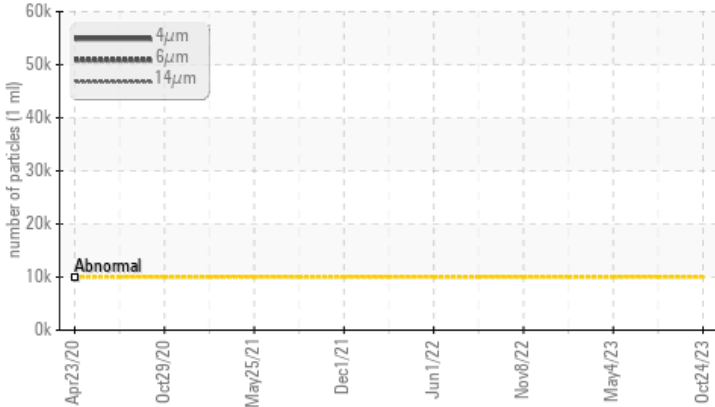
Area  
**[98498084]**  
 Machine Id  
**KR-GR-002930 - GRINDER A1 (EAST) (S/N GRIND A - 11513021)**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 220 (6 QTS)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>10000	▲ 51614	---	---
Particles >6µm	ASTM D7647	>2500	▲ 12325	---	---
Particles >14µm	ASTM D7647	>640	▲ 730	---	---
Particles >21µm	ASTM D7647	>160	▲ 180	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/16	▲ 23/21/17	---	---

Customer Id: KRAKIR  
 Sample No.: PCA0106043  
 Lab Number: 05994324  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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 if applicable.

## HISTORICAL DIAGNOSIS

### 31 Jul 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



### 04 May 2023 Diag: Jonathan Hester

VIS DEBRIS



We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report



### 07 Feb 2023 Diag: Doug Bogart

NORMAL



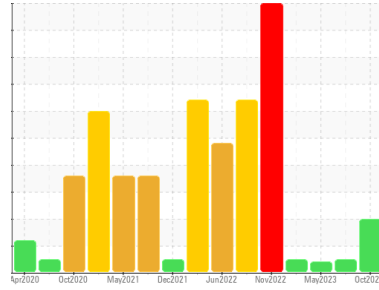
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**[98498084]**  
 Machine Id  
**KR-GR-002930 - GRINDER A1 (EAST) (S/N GRIND A - 11513021)**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 220 (6 QTS)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. 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>PCA0106043</b>	PCA0101722	PCA0093106
Sample Date	Client Info	<b>24 Oct 2023</b>	31 Jul 2023	04 May 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>5</b>	<1	16
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m >15	<b>0</b>	1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	1	0
Silver	ppm	ASTM D5185m	<b>0</b>	3	0
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m >100	<b>0</b>	8	0
Copper	ppm	ASTM D5185m >200	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	3	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	2	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 50	<b>&lt;1</b>	2	0
Barium	ppm	ASTM D5185m 15	<b>19</b>	0	0
Molybdenum	ppm	ASTM D5185m 15	<b>5</b>	1	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 50	<b>0</b>	20	<1
Calcium	ppm	ASTM D5185m 50	<b>1</b>	0	0
Phosphorus	ppm	ASTM D5185m 350	<b>512</b>	193	370
Zinc	ppm	ASTM D5185m 100	<b>23</b>	0	0
Sulfur	ppm	ASTM D5185m 12500	<b>1981</b>	1876	2005

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<b>4</b>	3	2
Sodium	ppm	ASTM D5185m	<b>2</b>	44	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	102	<1

## FLUID CLEANLINESS

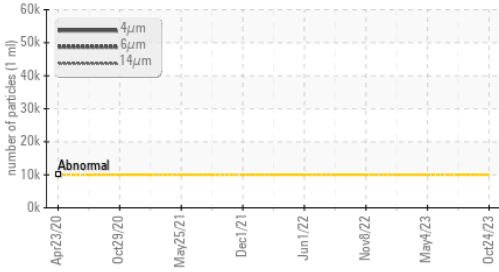
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 51614</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>▲ 12325</b>	---	---
Particles >14µm	ASTM D7647 >640	<b>▲ 730</b>	---	---
Particles >21µm	ASTM D7647 >160	<b>▲ 180</b>	---	---
Particles >38µm	ASTM D7647 >40	<b>3</b>	---	---
Particles >71µm	ASTM D7647 >10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	<b>▲ 23/21/17</b>	---	---

## FLUID DEGRADATION

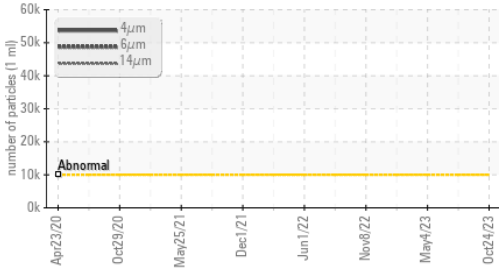
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	<b>0.51</b>	0.48	---

# OIL ANALYSIS REPORT

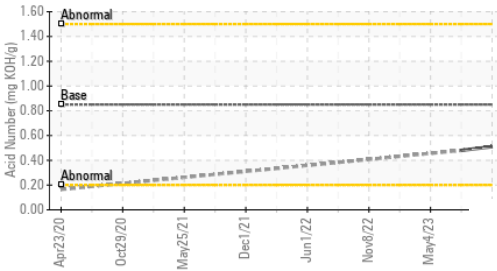
## ▲ Particle Trend



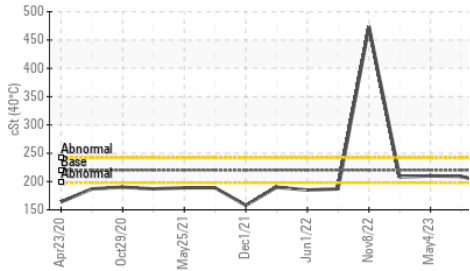
## ▲ Particle Trend



## Acid Number



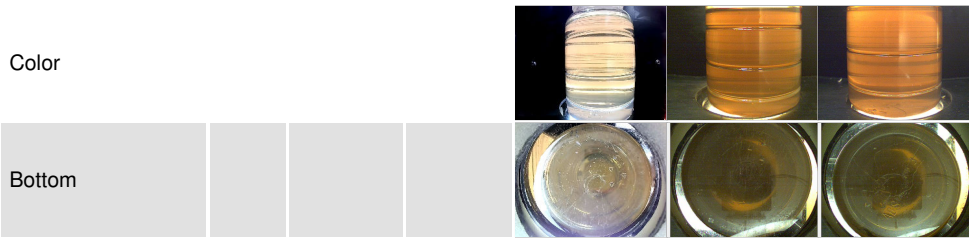
## Viscosity @ 40°C



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

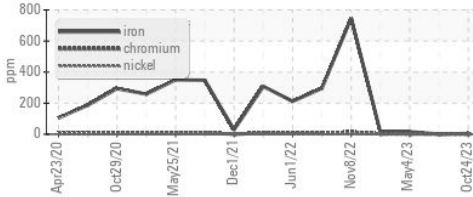
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	220	<b>196</b>	209	210

## SAMPLE IMAGES

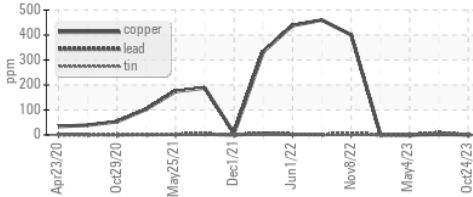


## GRAPHS

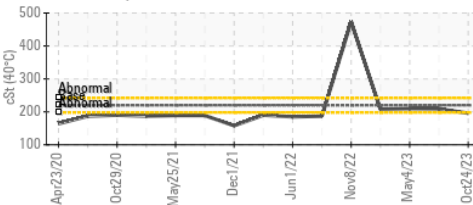
### Ferrous Alloys



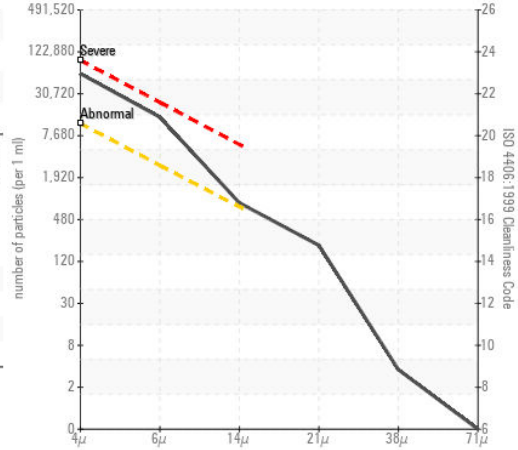
### Non-ferrous Metals



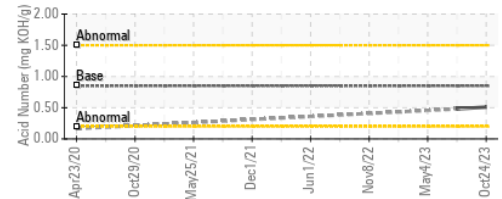
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106043 **Received** : 31 Oct 2023  
**Lab Number** : 05994324 **Diagnosed** : 01 Nov 2023  
**Unique Number** : 10722684 **Diagnostician** : Don Baldrige

**KraftHeinz - Kirksville - Plant 8333 PCA**  
 2504 INDUSTRIAL DR  
 KIRKSVILLE, MO  
 US 63501  
 Contact: WALLACE WARD  
 wallace.ward@kraftheinzcompany.com  
 T: (660)627-1031  
 F: (660)627-5887

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)