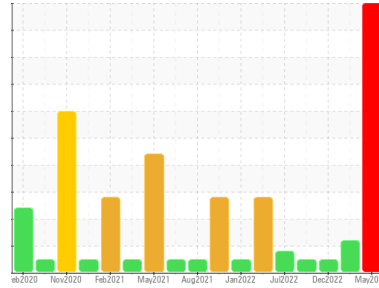


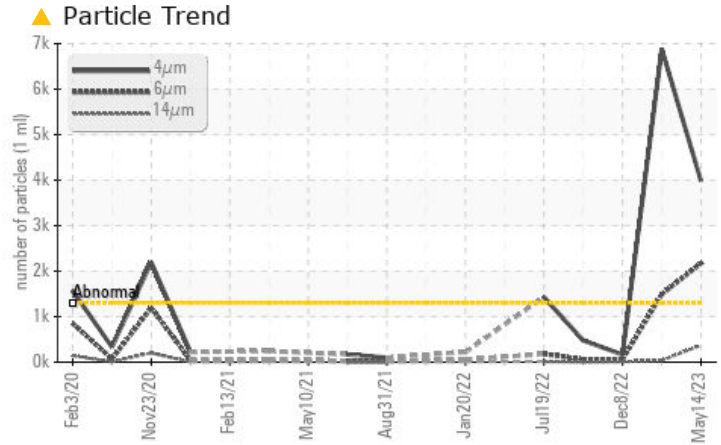
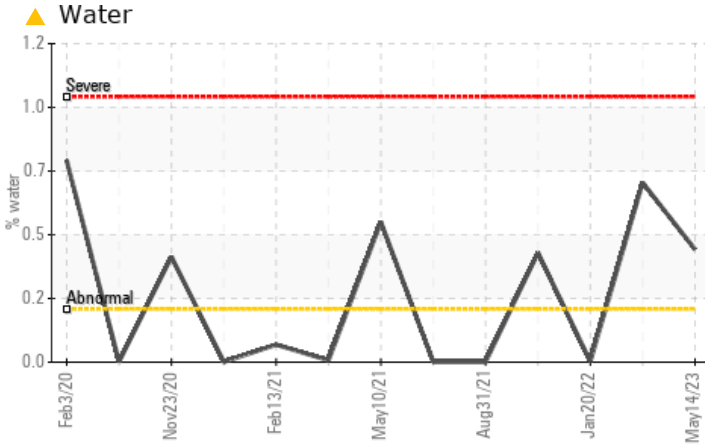
# PROBLEM SUMMARY

Area  
**Process Cheese [98242936 BEFORE]**  
 Machine Id  
**BLENDER 2**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 320 (--- GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	NORMAL
Water	%	ASTM D6304	>0.2	▲ 0.425	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4250	---	---
Particles >4µm		ASTM D7647	>1300	▲ 3984	▲ 6883	166
Particles >6µm		ASTM D7647	>320	▲ 2171	▲ 1492	55
Particles >14µm		ASTM D7647	>80	▲ 369	36	9
Particles >21µm		ASTM D7647	>20	▲ 124	5	3
Particles >38µm		ASTM D7647	>4	▲ 19	0	0
Particles >71µm		ASTM D7647	>3	▲ 2	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ 19/18/16	▲ 20/18/12	15/13/10
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML
Free Water	scalar	*Visual		◆ 10.0	NEG	NEG

Customer Id: KRASPRMO  
 Sample No.: PCA0088326  
 Lab Number: 05856659  
 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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### 24 Jan 2023 Diag: Don Baldrige

ISO



The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 08 Dec 2022 Diag: Jonathan Hester

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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 13 Sep 2022 Diag: Aaron Black

NORMAL



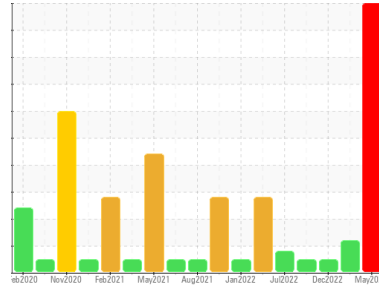
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





Area  
**Process Cheese [98242936 BEFORE]**  
 Machine Id  
**BLENDER 2**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 320 (--- GAL)**



**DIAGNOSIS**

**Recommendation**  
 We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 Appearance is hazy. There is a high amount of particulates present in the oil. Excessive free water present. There is a moderate concentration of water 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>PCA0088326</b>	PCA0081535	PCA0073980
Sample Date	Client Info	<b>14 May 2023</b>	24 Jan 2023	08 Dec 2022
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	Filtered	Filtered
Sample Status		<b>SEVERE</b>	ABNORMAL	NORMAL

**WEAR METALS**

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>19</b>	0	0
Chromium	ppm	ASTM D5185m >15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	0	0
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>0</b>	0	0
Tin	ppm	ASTM D5185m >25	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

**ADDITIVES**

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 50	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 15	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 15	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m 50	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m 50	<b>1</b>	0	0
Phosphorus	ppm	ASTM D5185m 350	<b>314</b>	343	486
Zinc	ppm	ASTM D5185m 100	<b>11</b>	2	14
Sulfur	ppm	ASTM D5185m 12500	<b>524</b>	394	548

**CONTAMINANTS**

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<b>2</b>	2	3
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	0
Water	%	ASTM D6304 >0.2	<b>▲ 0.425</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 4250</b>	---	---

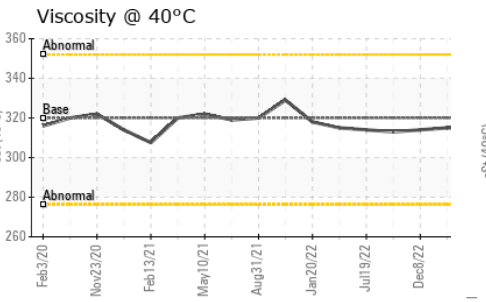
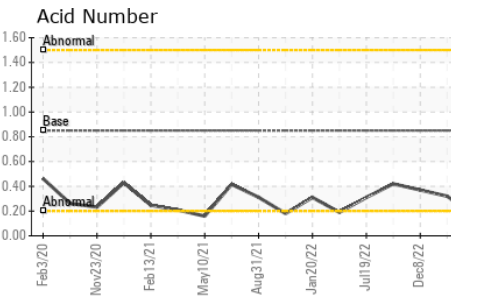
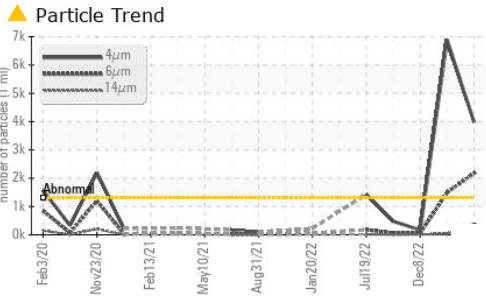
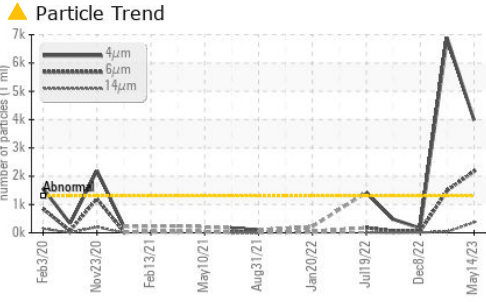
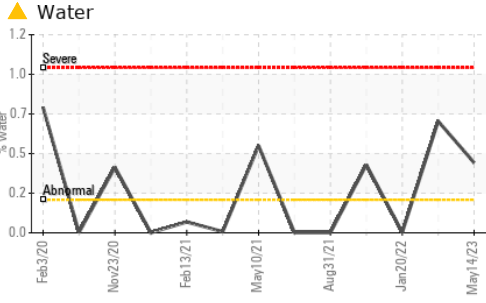
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	<b>▲ 3984</b>	▲ 6883	166
Particles >6µm	ASTM D7647 >320	<b>▲ 2171</b>	▲ 1492	55
Particles >14µm	ASTM D7647 >80	<b>▲ 369</b>	36	9
Particles >21µm	ASTM D7647 >20	<b>▲ 124</b>	5	3
Particles >38µm	ASTM D7647 >4	<b>▲ 19</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>▲ 2</b>	0	0
Oil Cleanliness	ISO 4406 (c) >17/15/13	<b>▲ 19/18/16</b>	▲ 20/18/12	15/13/10

**FLUID DEGRADATION**

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	<b>0.16</b>	0.32	0.37

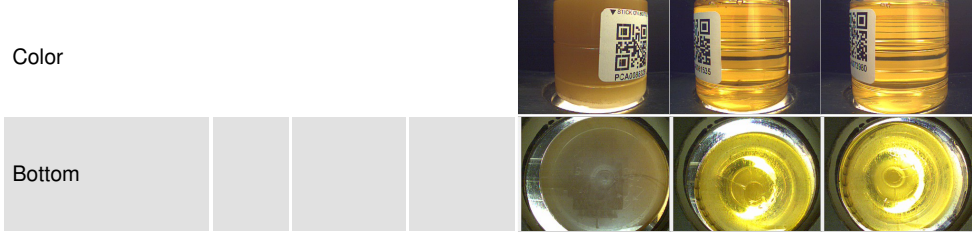
# OIL ANALYSIS REPORT



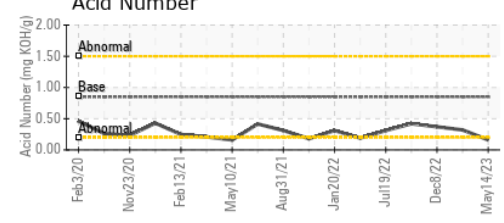
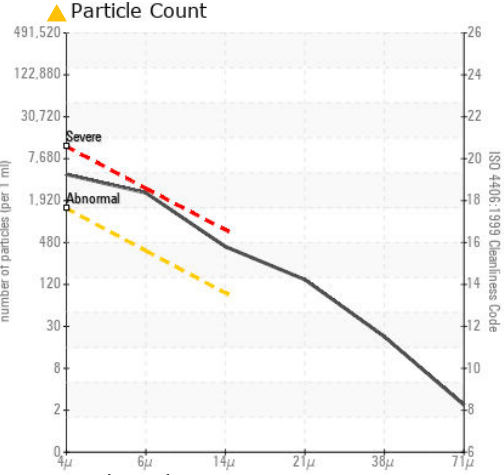
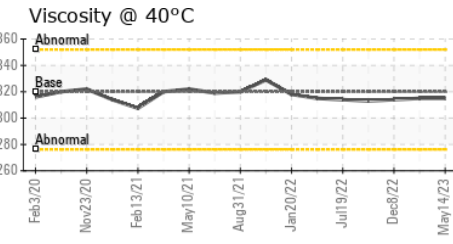
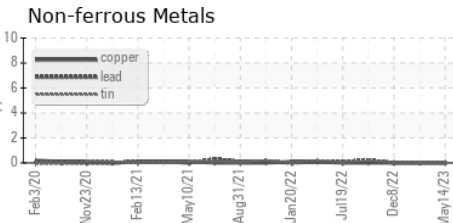
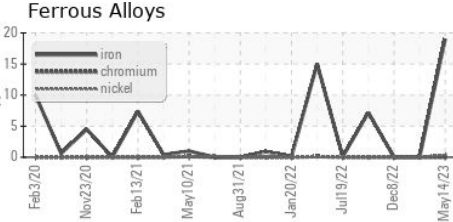
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG
Free Water	scalar	*Visual	10.0	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	315	314

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0088326  
**Lab Number** : 05856659  
**Unique Number** : 10486014  
**Test Package** : IND 2 ( Additional Tests: KF, 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)