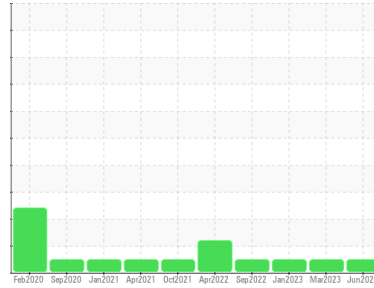


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Process Cheese [98301107]**  
 Machine Id  
**BLENDER 3**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 320 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### 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	history 1	history 2
Sample Number	Client Info	<b>PCA0100127</b>	PCA0088294	PCA0081536
Sample Date	Client Info	<b>22 Jun 2023</b>	12 Mar 2023	26 Jan 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>Filtered</b>	Filtered	Filtered
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m	50	<b>0</b>	0
Barium	ppm	ASTM D5185m	15	<b>14</b>	0
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0
Magnesium	ppm	ASTM D5185m	50	<b>13</b>	0
Calcium	ppm	ASTM D5185m	50	<b>2</b>	0
Phosphorus	ppm	ASTM D5185m	350	<b>447</b>	419
Zinc	ppm	ASTM D5185m	100	<b>29</b>	6
Sulfur	ppm	ASTM D5185m	12500	<b>963</b>	661

## CONTAMINANTS

method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m	>50	<b>&lt;1</b>	2
Sodium	ppm	ASTM D5185m		<b>0</b>	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1

## FLUID CLEANLINESS

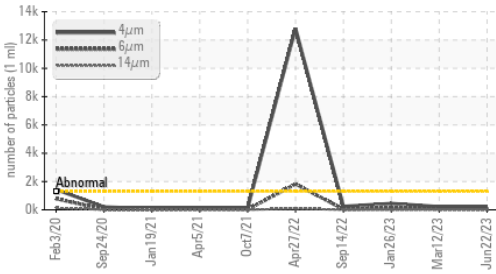
method	limit/base	current	history 1	history 2	
Particles >4µm	ASTM D7647	>1300	<b>193</b>	221	446
Particles >6µm	ASTM D7647	>320	<b>53</b>	68	124
Particles >14µm	ASTM D7647	>80	<b>6</b>	6	4
Particles >21µm	ASTM D7647	>20	<b>2</b>	1	1
Particles >38µm	ASTM D7647	>4	<b>0</b>	0	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>17/15/13	<b>15/13/10</b>	15/13/10	16/14/9

## FLUID DEGRADATION

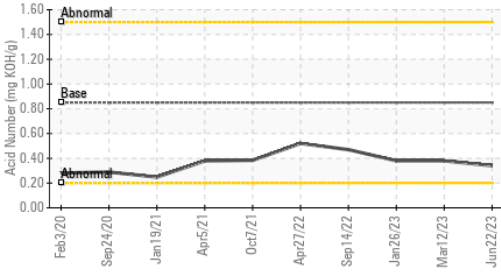
method	limit/base	current	history 1	history 2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.34</b>	0.38

# OIL ANALYSIS REPORT

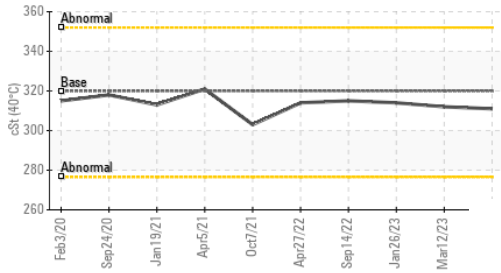
**Particle Trend**



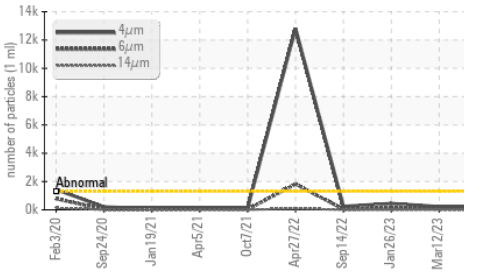
**Acid Number**



**Viscosity @ 40°C**



**Particle Trend**

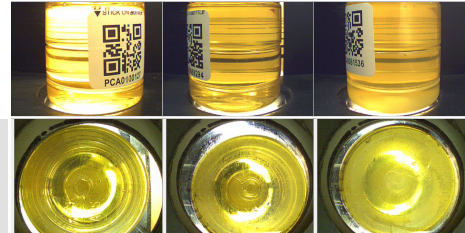


PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 320	311	312	314

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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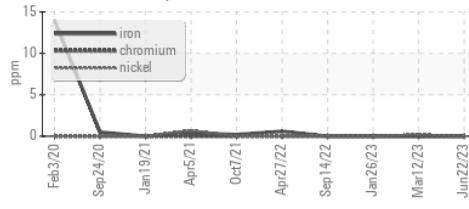
**Color**



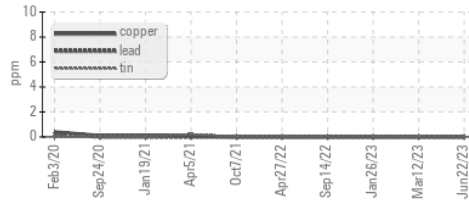
**Bottom**

## GRAPHS

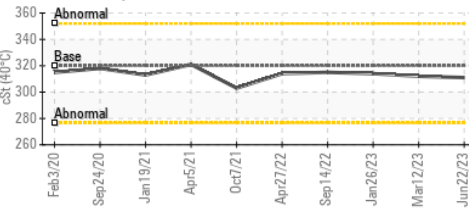
**Ferrous Alloys**



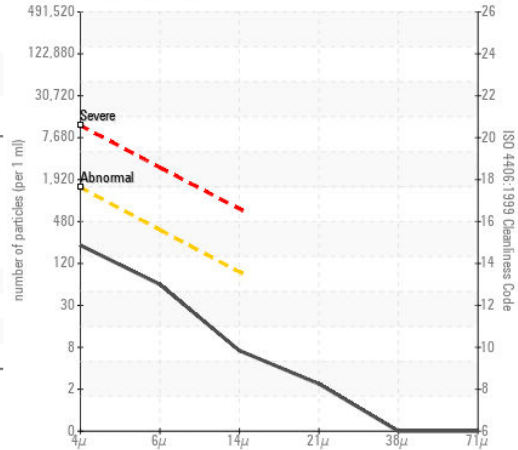
**Non-ferrous Metals**



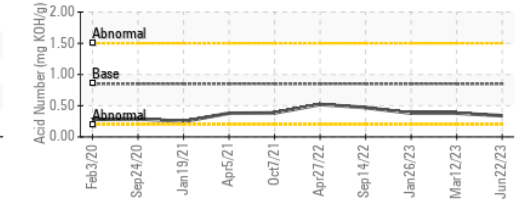
**Viscosity @ 40°C**



**Particle Count**



**Acid Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0100127  
**Lab Number** : 05887816  
**Unique Number** : 10538299  
**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: