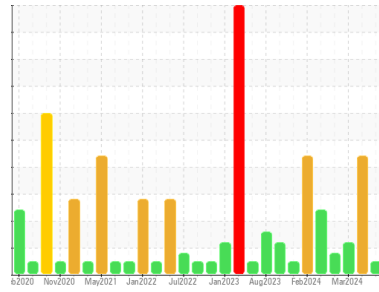


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Process Cheese [98993379]**  
 Machine Id  
**BLENDER 2**  
 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

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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>PCA0120253</b>	PCA0120249	PCA0117971
Sample Date	Client Info			<b>26 Mar 2024</b>	24 Mar 2024	12 Mar 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Filtered</b>	Changed	Filtered
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>0</b>	36	0
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

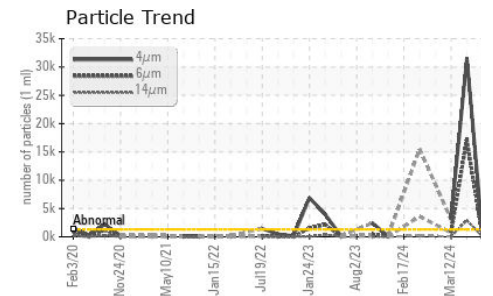
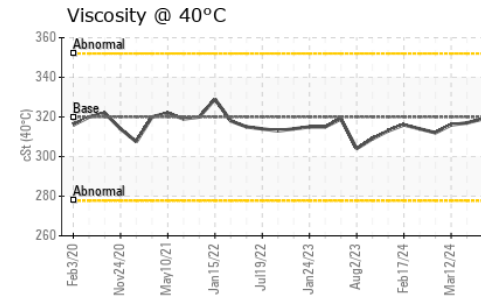
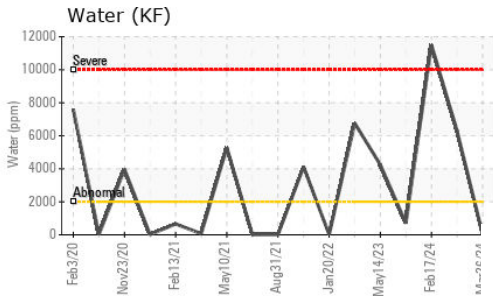
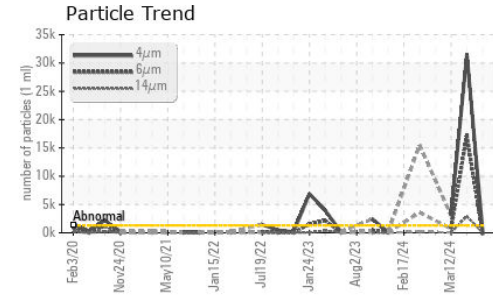
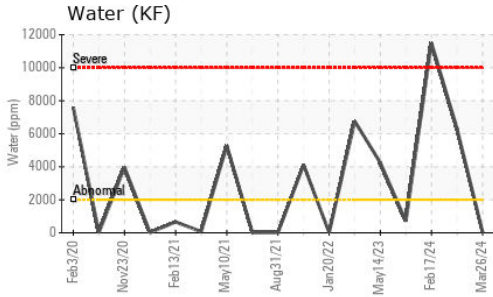
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	15	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	50	<b>&lt;1</b>	2	0
Calcium	ppm	ASTM D5185m	50	<b>0</b>	3	2
Phosphorus	ppm	ASTM D5185m	350	<b>441</b>	464	575
Zinc	ppm	ASTM D5185m	100	<b>0</b>	1	0
Sulfur	ppm	ASTM D5185m	12500	<b>674</b>	1125	1233

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185m		<b>0</b>	3	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	4	<1
Water	%	ASTM D6304	>0.2	<b>0.003</b>	▲ 0.630	---
ppm Water	ppm	ASTM D6304	>2000	<b>29</b>	▲ 6300	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<b>391</b>	▲ 31528	▲ 3082
Particles >6µm		ASTM D7647	>320	<b>104</b>	▲ 17175	▲ 709
Particles >14µm		ASTM D7647	>80	<b>14</b>	▲ 2923	60
Particles >21µm		ASTM D7647	>20	<b>6</b>	▲ 985	16
Particles >38µm		ASTM D7647	>4	<b>0</b>	▲ 152	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	▲ 16	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<b>16/14/11</b>	▲ 22/21/19	▲ 19/17/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.35</b>	0.22	0.39

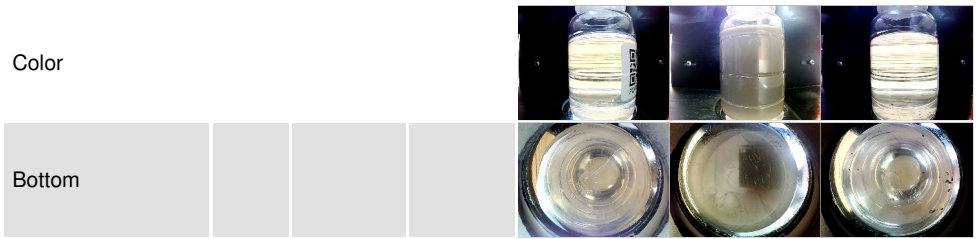
# OIL ANALYSIS REPORT



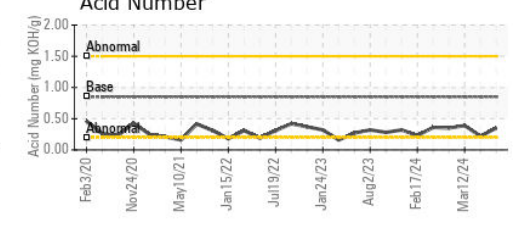
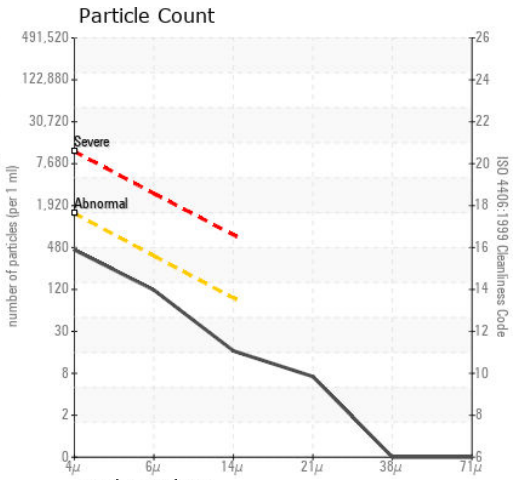
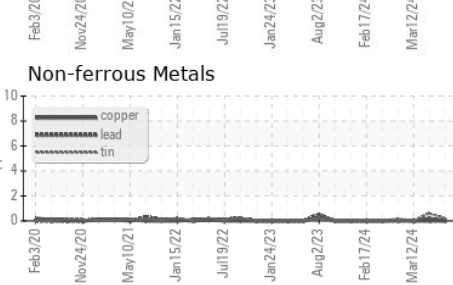
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	319	317

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0120253  
**Lab Number** : 06139884  
**Unique Number** : 10964692  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**Received** : 05 Apr 2024  
**Tested** : 08 Apr 2024  
**Diagnosed** : 08 Apr 2024 - Don Baldrige

**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)