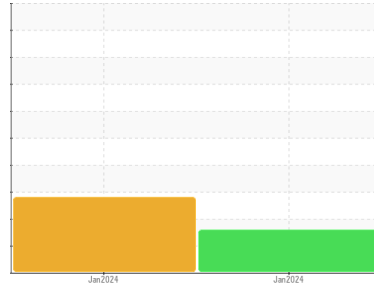


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**VISCOSITY**


Area  
**DINNERS [98709269 AFTER]**  
 Machine Id  
**L21 KNIFE - DINNERS**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 150 (--- GAL)**

**DIAGNOSIS**
**Recommendation**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

**Fluid Condition**

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0108438</b>	PCA0108439	---
Sample Date	Client Info		<b>20 Jan 2024</b>	19 Jan 2024	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ATTENTION</b>	ABNORMAL	---

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

**WEAR METALS**

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

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 15	<b>0</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>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m 50	<b>&lt;1</b>	<1	---
Phosphorus	ppm	ASTM D5185m 350	<b>527</b>	98	---
Zinc	ppm	ASTM D5185m 100	<b>9</b>	4	---
Sulfur	ppm	ASTM D5185m 12500	<b>1250</b>	0	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>8</b>	▲ 111	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---

**FLUID CLEANLINESS**

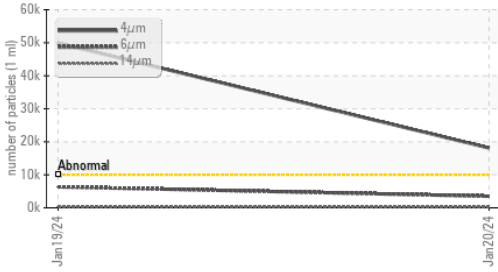
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ <b>18108</b>	▲ 49908	---
Particles >6µm	ASTM D7647	>2500	▲ <b>3509</b>	▲ 6353	---
Particles >14µm	ASTM D7647	>640	<b>184</b>	229	---
Particles >21µm	ASTM D7647	>160	<b>44</b>	48	---
Particles >38µm	ASTM D7647	>40	<b>1</b>	2	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/16	▲ <b>21/19/15</b>	▲ 23/20/15	---

**FLUID DEGRADATION**

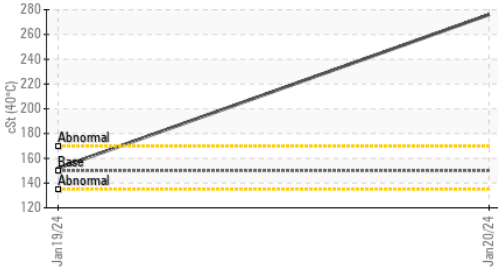
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	<b>0.51</b>	0.44	---

# OIL ANALYSIS REPORT

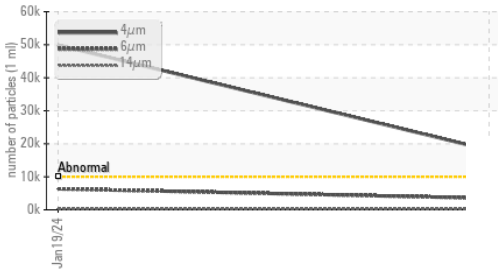
**▲ Particle Trend**



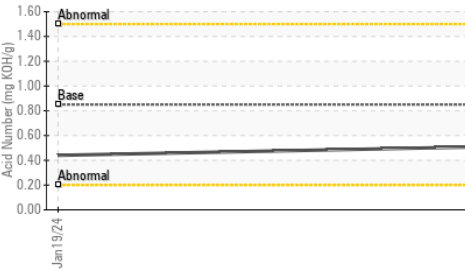
**▲ Viscosity @ 40°C**



**▲ Particle Trend**



**Acid Number**



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	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	---

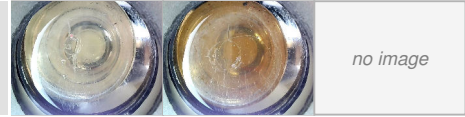
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150 ▲ 276.1	152	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

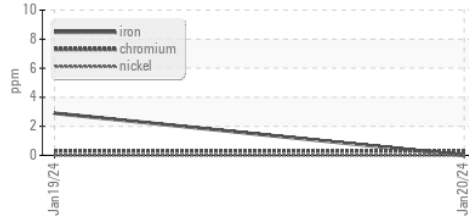


Bottom

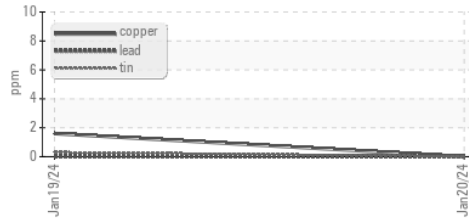


**GRAPHS**

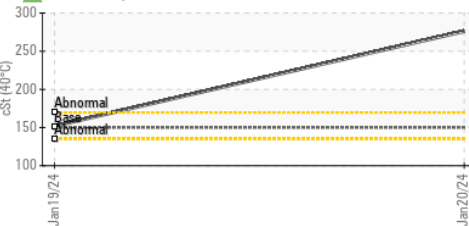
**Ferrous Alloys**



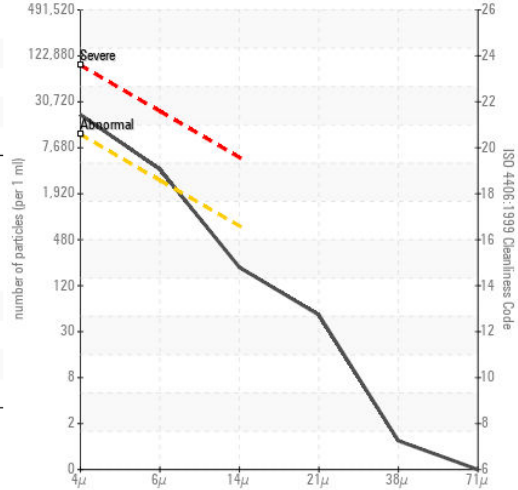
**Non-ferrous Metals**



**Viscosity @ 40°C**



**▲ Particle Count**



**Acid Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108438 **Received** : 26 Jan 2024  
**Lab Number** : 06071643 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10848320 **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: