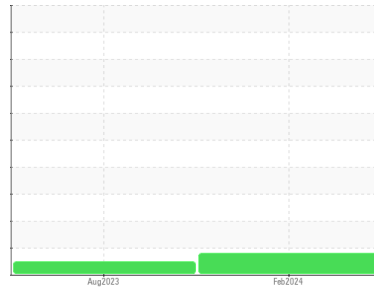


# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Area

**UTILITIES [98903486]**

Machine Id

**CAMERON 3 (S/N 18181)**

Component

**Rotary Compressor**

Fluid

**INGERSOLL-RAND TURBOBLEND 46 (70 GAL)**

### DIAGNOSIS

#### Recommendation

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 AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0096828</b>	PCA0096835	---
Sample Date	Client Info		<b>05 Feb 2024</b>	07 Aug 2023	---
Machine Age	hrs	Client Info	<b>68189</b>	66979	---
Oil Age	hrs	Client Info	<b>21478</b>	20268	---
Oil Changed	Client Info		<b>N/A</b>	Not Changd	---
Sample Status			<b>ATTENTION</b>	NORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >70	<b>&lt;1</b>	0	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >3	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m >4	<b>1</b>	0	---
Copper	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m >3	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	2	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Calcium	ppm	ASTM D5185m	<b>4</b>	0	---
Phosphorus	ppm	ASTM D5185m	<b>11</b>	12	---
Zinc	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Sulfur	ppm	ASTM D5185m	<b>0</b>	39	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >45	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	3	---
Water	%	ASTM D6304 >0.6	<b>0.005</b>	---	---
ppm Water	ppm	ASTM D6304	<b>58</b>	---	---

### FLUID CLEANLINESS

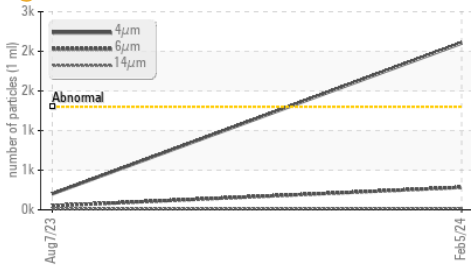
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	<b>2104</b>	202	---
Particles >6µm	ASTM D7647	>320	<b>283</b>	51	---
Particles >14µm	ASTM D7647	>80	<b>16</b>	10	---
Particles >21µm	ASTM D7647	>20	<b>4</b>	3	---
Particles >38µm	ASTM D7647	>4	<b>0</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>17/15/13	<b>18/15/11</b>	15/13/10	---

### FLUID DEGRADATION

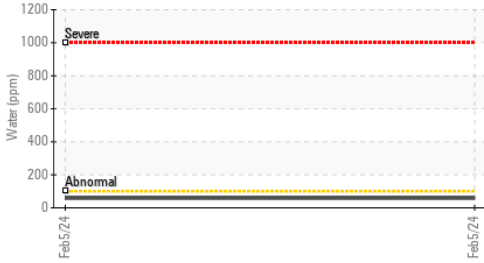
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.14</b>	0.12	---

# OIL ANALYSIS REPORT

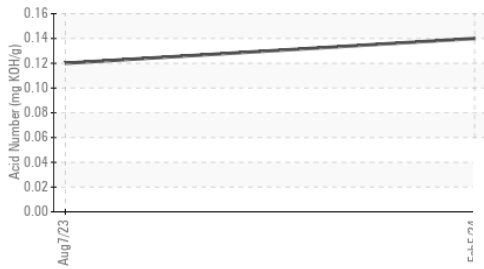
## Particle Trend



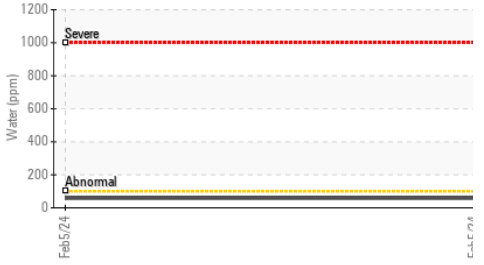
## Water (KF)



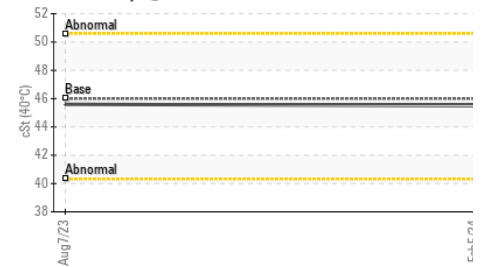
## Acid Number



## Water (KF)



## Viscosity @ 40°C



PARAMETER	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	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.6	NEG	---
Free Water	scalar	*Visual		NEG	---

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.5	45.6

PARAMETER	method	limit/base	current	history1	history2
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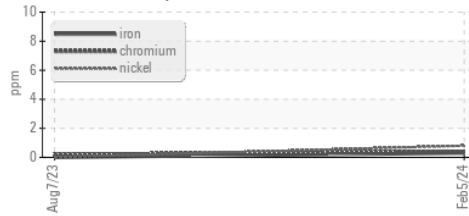
**SAMPLE IMAGES**

Color: no image

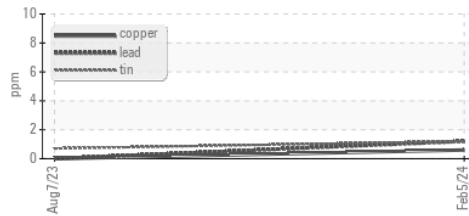
Bottom: no image

## GRAPHS

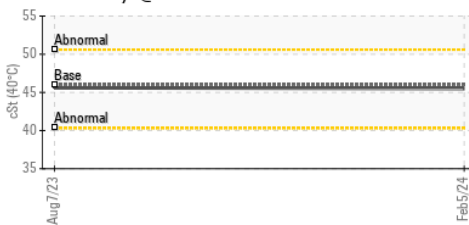
### Ferrous Alloys



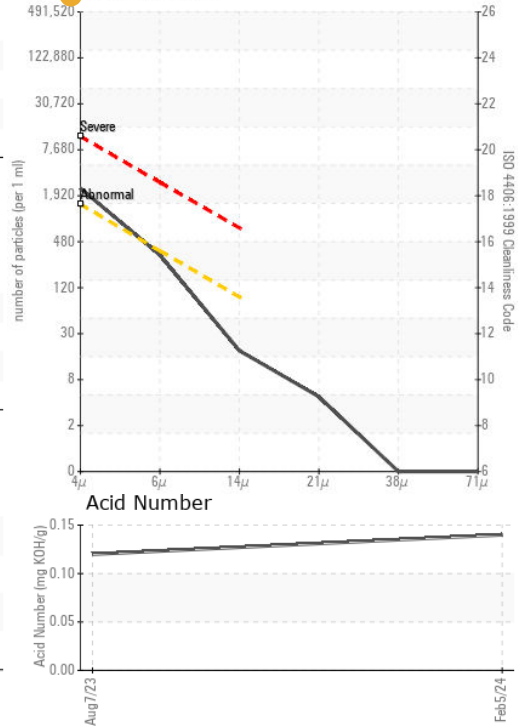
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0096828  
**Lab Number** : 06146651  
**Unique Number** : 10976729  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**Received** : 11 Apr 2024  
**Tested** : 12 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Angela Borella

**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: