

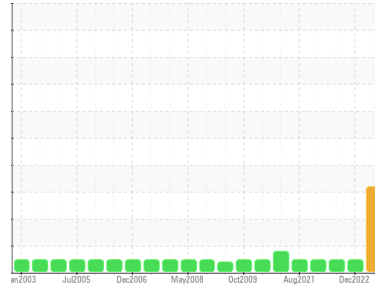
# PROBLEM SUMMARY

Sample Rating Trend

ISO

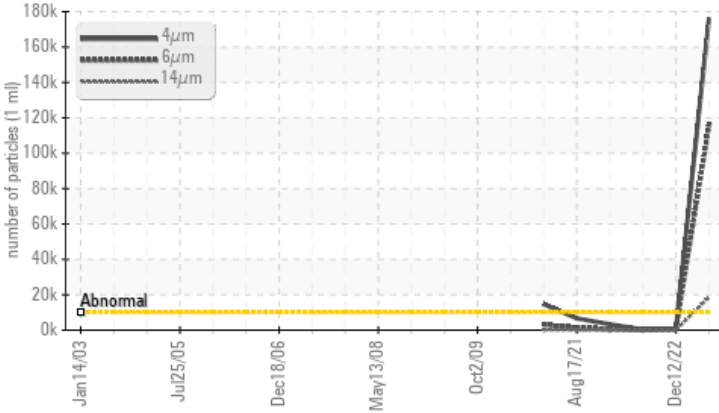


Machine Id  
**COMP 5 (S/N 2012839)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**CAMCO 717 SC (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>10000	▲ 176179	666	328
Particles >6µm	ASTM D7647	>2500	▲ 115588	189	83
Particles >14µm	ASTM D7647	>640	▲ 18513	14	8
Particles >21µm	ASTM D7647	>160	▲ 5101	4	2
Particles >38µm	ASTM D7647	>40	▲ 242	0	0
Particles >71µm	ASTM D7647	>10	▲ 12	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/16	▲ 25/24/21	17/15/11	16/14/10
Debris	scalar *Visual	NONE	▲ VHEVY	NONE	NONE

Customer Id: KRANEW  
 Sample No.: PCA0092038  
 Lab Number: 05811625  
 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
Change Filter	---	---	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS

### 12 Dec 2022 Diag: Angela Borella

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



### 20 Jul 2022 Diag: Don Baldrige

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



### 11 Jan 2022 Diag: Doug Bogart

NORMAL



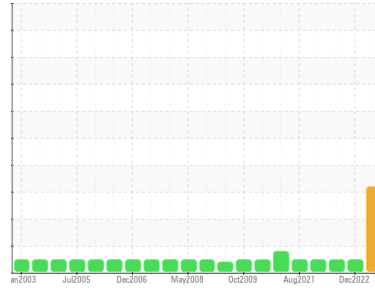
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





Machine Id  
**COMP 5 (S/N 2012839)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**CAMCO 717 SC (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. Very high concentration of visible dirt/debris 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>PCA0092038</b>	PCA0080231	PCA0078688
Sample Date	Client Info	<b>03 Apr 2023</b>	12 Dec 2022	20 Jul 2022
Machine Age	hrs	<b>50000</b>	8957	6892
Oil Age	hrs	<b>10000</b>	22104	20039
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Not Changd
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>17</b>	0	0
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>1</b>	0	0
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>13</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>44</b>	33	4
Zinc	ppm	ASTM D5185m	<b>0</b>	6	0
Sulfur	ppm	ASTM D5185m	<b>618</b>	0	62

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>2</b>	0	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304 >0.01	<b>0.009</b>	0.003	0.003
ppm Water	ppm	ASTM D6304 >100	<b>90.6</b>	30.9	27.2

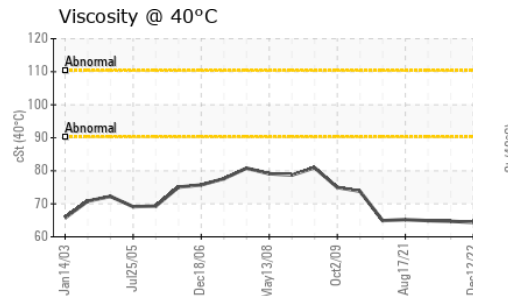
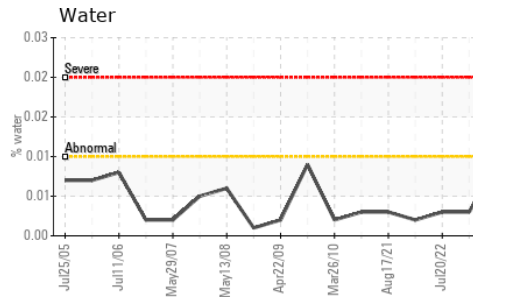
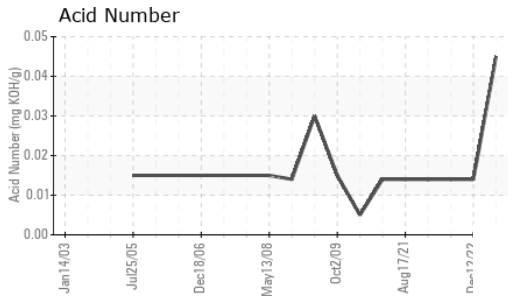
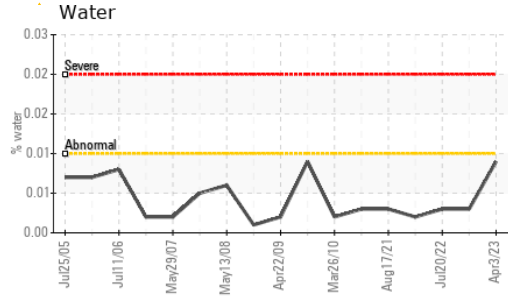
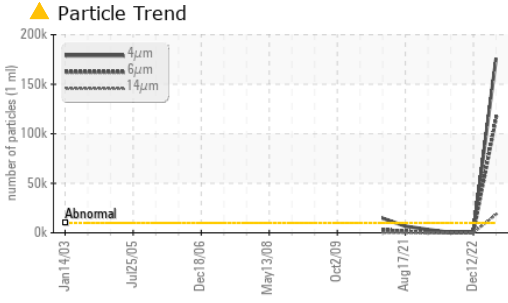
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 176179</b>	666	328
Particles >6µm	ASTM D7647 >2500	<b>▲ 115588</b>	189	83
Particles >14µm	ASTM D7647 >640	<b>▲ 18513</b>	14	8
Particles >21µm	ASTM D7647 >160	<b>▲ 5101</b>	4	2
Particles >38µm	ASTM D7647 >40	<b>▲ 242</b>	0	0
Particles >71µm	ASTM D7647 >10	<b>▲ 12</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/16	<b>▲ 25/24/21</b>	17/15/11	16/14/10

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974	<b>0.045</b>	0.014	0.014

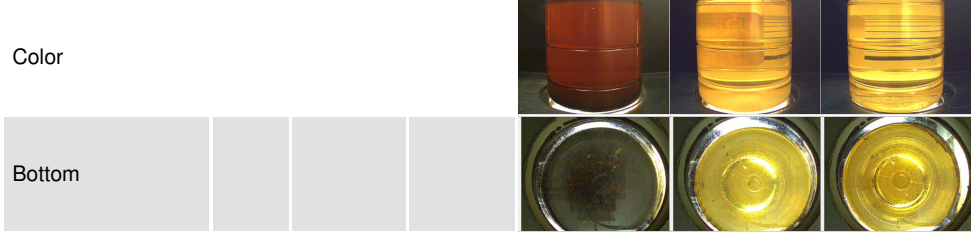
# OIL ANALYSIS REPORT



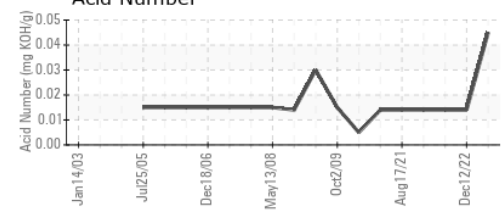
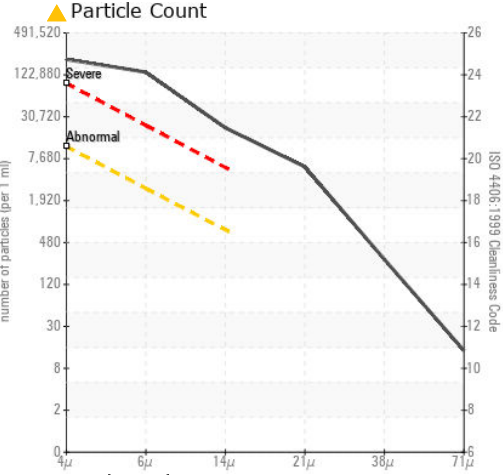
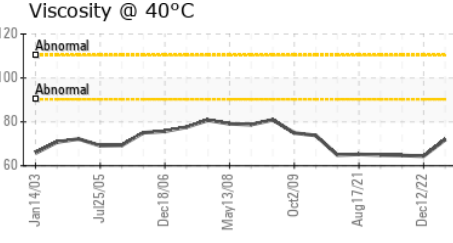
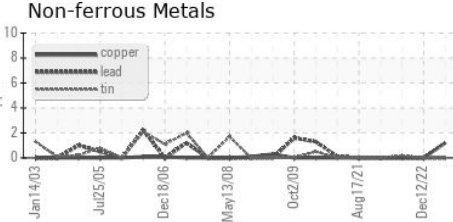
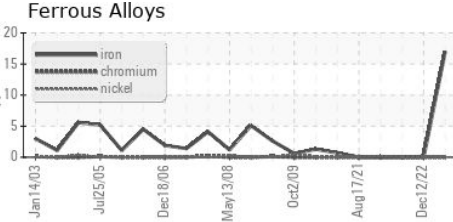
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	71.91	64.4	64.7

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0092038 **Received** : 05 Apr 2023  
**Lab Number** : 05811625 **Diagnosed** : 12 Apr 2023  
**Unique Number** : 10414417 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**KraftHeinz - New Ulm - Plant 8302**  
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 NEW ULM, MN  
 US 56073  
 Contact: RYAN SCHMID  
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 T: (507)568-0338  
 F: (507)354-7927

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)