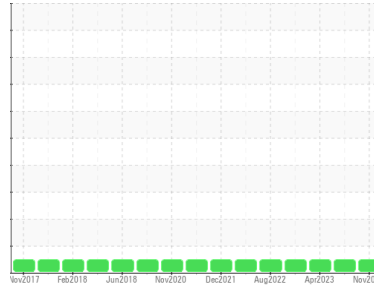




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**AMMONIA ROOM**  
 Machine Id  
**CH-2 (S/N SCC23170821Z)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**FRICK COMPRESSOR OIL #11 (--- 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	history1	history2
Sample Number	Client Info	<b>USP0003694</b>	USP0000714	USP249633
Sample Date	Client Info	<b>15 Nov 2023</b>	09 Aug 2023	05 Apr 2023
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>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>8	<b>0</b>	<1	0
Chromium ppm ASTM D5185m	>2	<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	>2	<b>0</b>	0	0
Aluminum ppm ASTM D5185m	>3	<b>0</b>	0	0
Lead ppm ASTM D5185m	>2	<b>0</b>	0	0
Copper ppm ASTM D5185m	>8	<b>&lt;1</b>	0	0
Tin ppm ASTM D5185m	>4	<b>0</b>	0	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		<b>0</b>	0	0
Barium ppm ASTM D5185m		<b>0</b>	0	0
Molybdenum ppm ASTM D5185m		<b>0</b>	0	0
Manganese ppm ASTM D5185m		<b>0</b>	0	<1
Magnesium ppm ASTM D5185m		<b>0</b>	0	0
Calcium ppm ASTM D5185m		<b>0</b>	0	0
Phosphorus ppm ASTM D5185m		<b>0</b>	0	0
Zinc ppm ASTM D5185m		<b>0</b>	0	0
Sulfur ppm ASTM D5185m		<b>0</b>	4	5

## CONTAMINANTS

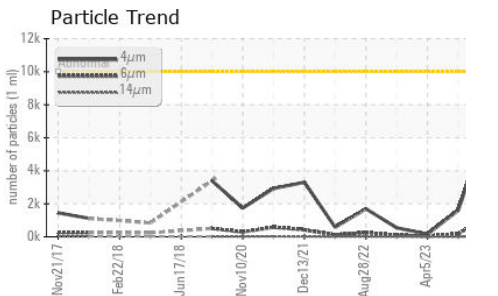
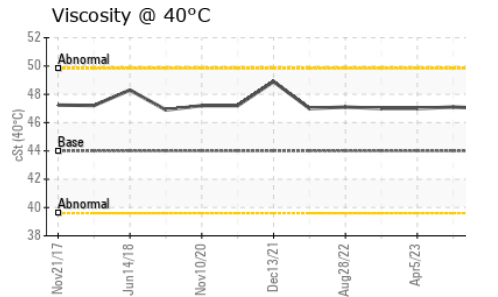
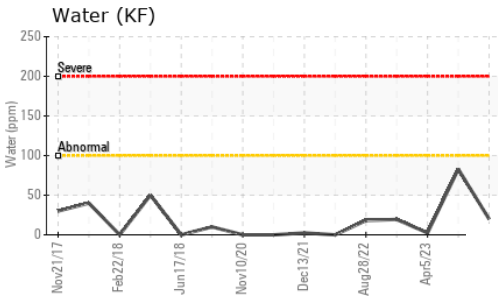
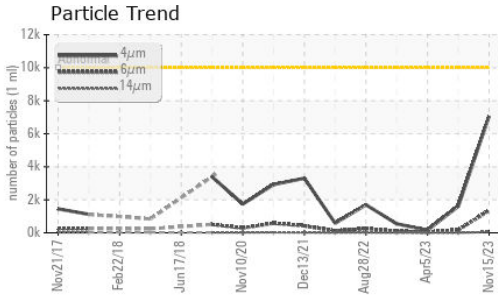
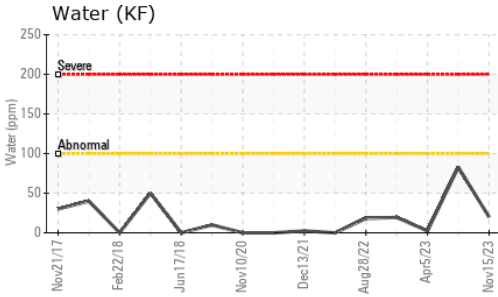
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Sodium ppm ASTM D5185m		<b>1</b>	0	0
Potassium ppm ASTM D5185m	>20	<b>0</b>	0	0
Water % ASTM D6304	>0.01	<b>0.002</b>	0.008	0.001
ppm Water ppm ASTM D6304	>100	<b>19.9</b>	82.9	2.4

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>7064</b>	1609	159
Particles >6µm ASTM D7647	>2500	<b>1346</b>	177	45
Particles >14µm ASTM D7647	>640	<b>46</b>	4	5
Particles >21µm ASTM D7647	>160	<b>4</b>	2	1
Particles >38µm ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness ISO 4406 (c)	>20/18/16	<b>20/18/13</b>	18/15/9	14/13/10

## FLUID DEGRADATION

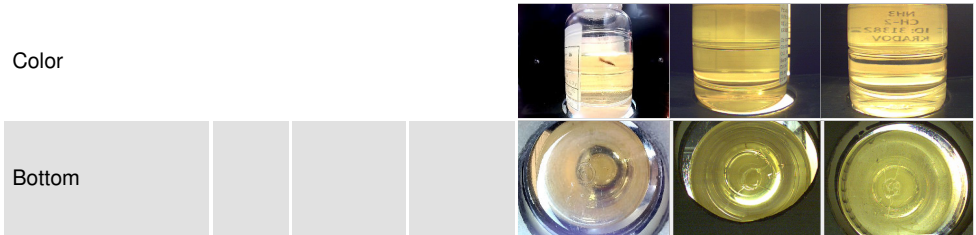
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974		<b>0.015</b>	0.015	0.015



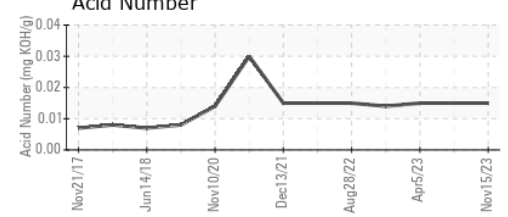
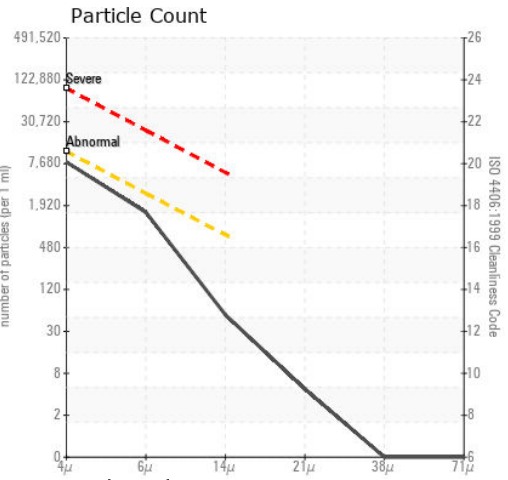
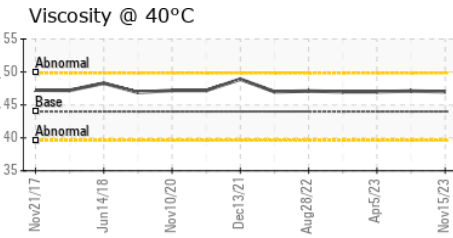
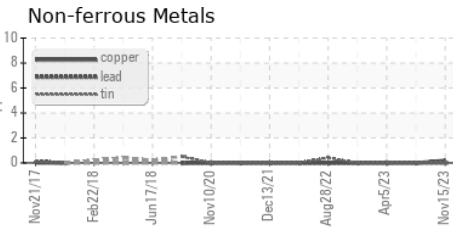
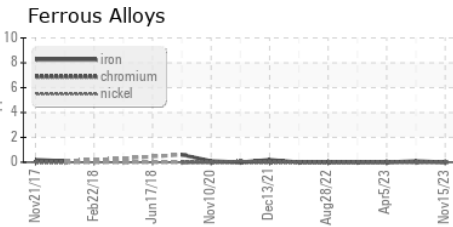
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.0	47.0	47.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0003694  
**Lab Number** : 06009699  
**Unique Number** : 10743461  
**Test Package** : IND 2  
**Received** : 16 Nov 2023  
**Diagnosed** : 17 Nov 2023  
**Diagnostician** : Doug Bogart

**KraftHeinz - Dover - Plant 8376**  
 1250 WEST NORTH ST  
 DOVER, DE  
 US 19904  
 Contact: GEORGE HEESH  
 kegmh20@kraftheinz.com  
 T: (302)399-6677  
 F:

Certificate L2367  
 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)