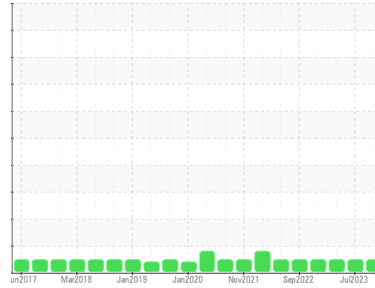




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KR-GF-100318 RPE5-C3**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**USPI 1009-68 SC (50 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>USP0001152</b>	USP249337	USP244338
Sample Date	Client Info	<b>15 Oct 2023</b>	10 Jul 2023	04 May 2023
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	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>	0
Chromium	ppm	ASTM D5185m >2	<b>0</b>	0
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0
Aluminum	ppm	ASTM D5185m >3	<b>0</b>	<1
Lead	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1
Copper	ppm	ASTM D5185m >8	<b>0</b>	0
Tin	ppm	ASTM D5185m >4	<b>0</b>	0
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	<b>0</b>	0
Barium	ppm	ASTM D5185m	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0
Magnesium	ppm	ASTM D5185m	<b>0</b>	0
Calcium	ppm	ASTM D5185m	<b>0</b>	0
Phosphorus	ppm	ASTM D5185m	<b>0</b>	0
Zinc	ppm	ASTM D5185m	<b>&lt;1</b>	0
Sulfur	ppm	ASTM D5185m 50	<b>0</b>	0

## CONTAMINANTS

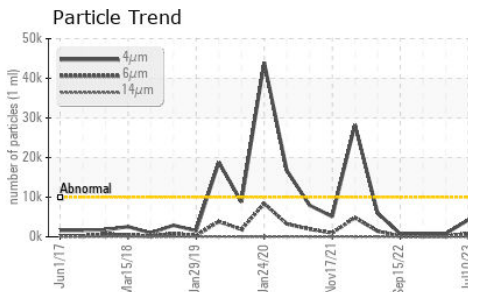
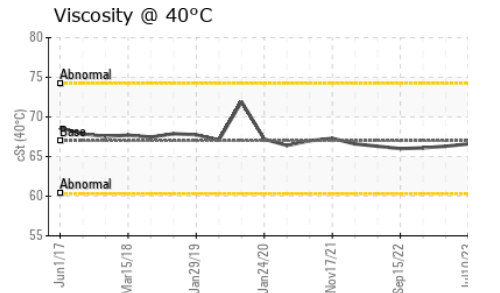
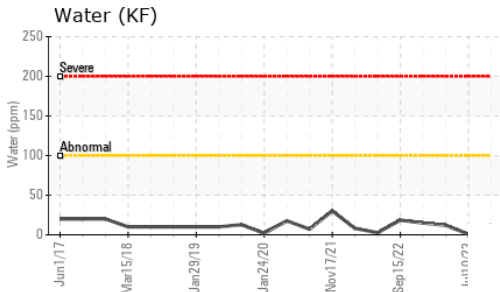
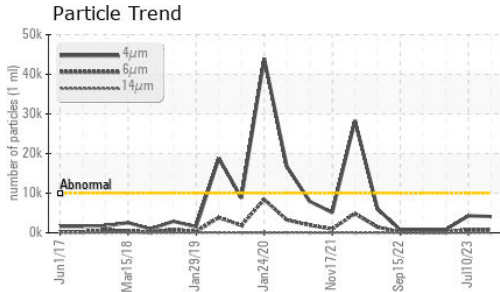
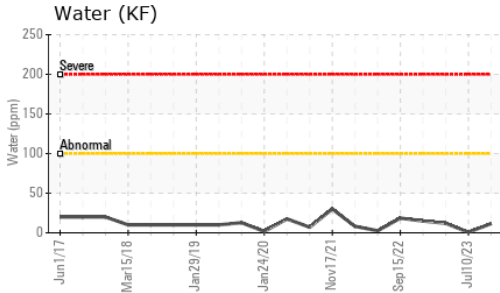
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	0
Sodium	ppm	ASTM D5185m	<b>0</b>	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1
Water	%	ASTM D6304 >0.01	<b>0.001</b>	0.001
ppm Water	ppm	ASTM D6304 >100	<b>11.6</b>	0.7

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>4104</b>	4282	778
Particles >6µm	ASTM D7647 >2500	<b>856</b>	812	150
Particles >14µm	ASTM D7647 >640	<b>22</b>	24	6
Particles >21µm	ASTM D7647 >160	<b>3</b>	7	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>19/17/12</b>	19/17/12	17/14/10

## FLUID DEGRADATION

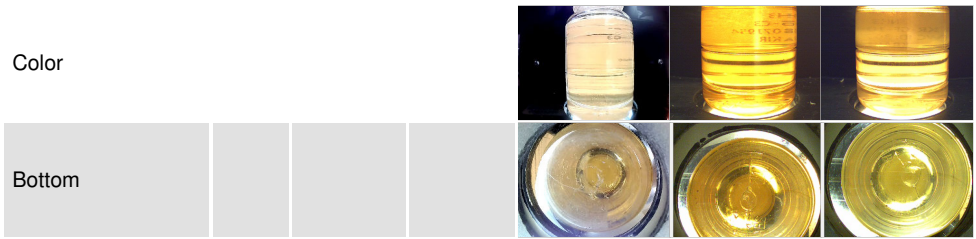
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.005	<b>0.015</b>	0.014



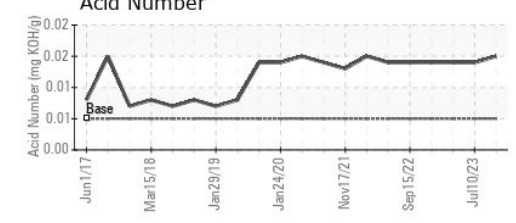
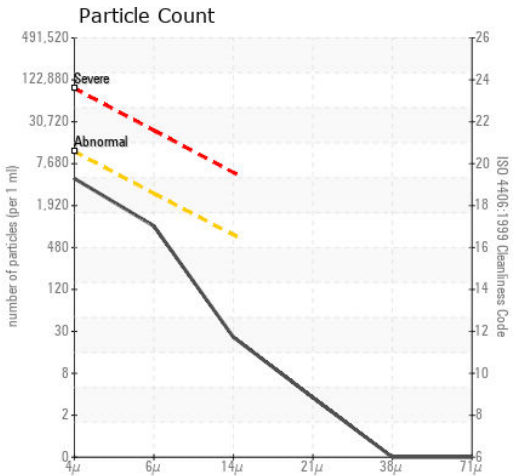
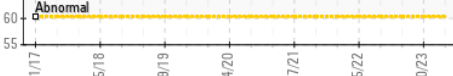
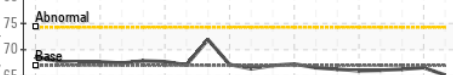
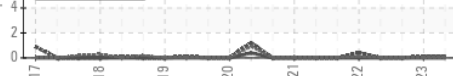
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 67	65.2	66.6	66.3

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0001152 **Received** : 16 Oct 2023  
**Lab Number** : 05979787 **Diagnosed** : 17 Oct 2023  
**Unique Number** : 10697082 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**KraftHeinz - Kirksville - Plant 8333 USP**  
 2504 INDUSTRIAL RD  
 KIRKSVILLE, MO  
 US 63501  
 Contact: THOMAS BARRETT  
 thomas.barrett@kraftheinz.com  
 T:  
 F:

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)