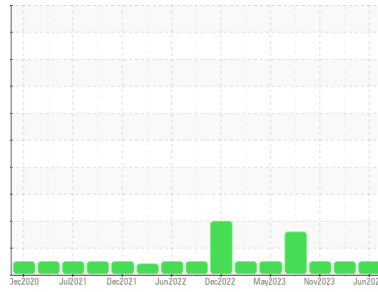




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**C4 TUMBLER**  
 Component  
**Pump**  
 Fluid  
**USPI VAC 100 (--- LTR)**

## 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>USPM37708</b>	USPM30335	USPM31935
Sample Date	Client Info	<b>06 Jun 2024</b>	04 Mar 2024	27 Nov 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 >90	<b>3</b>	<1	0
Chromium	ppm ASTM D5185m >5	<b>&lt;1</b>	0	<1
Nickel	ppm ASTM D5185m >5	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185m >3	<b>&lt;1</b>	0	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >7	<b>0</b>	0	0
Lead	ppm ASTM D5185m >12	<b>&lt;1</b>	0	0
Copper	ppm ASTM D5185m >30	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185m >9	<b>&lt;1</b>	<1	0
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>&lt;1</b>	0	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm ASTM D5185m 0	<b>0</b>	0	0
Calcium	ppm ASTM D5185m 0	<b>0</b>	<1	0
Phosphorus	ppm ASTM D5185m 1800	<b>808</b>	800	1005
Zinc	ppm ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm ASTM D5185m 0	<b>0</b>	24	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	<b>16</b>	9	6
Sodium	ppm ASTM D5185m	<b>0</b>	0	0
Potassium	ppm ASTM D5185m >20	<b>0</b>	0	1
Water	% ASTM D6304 >.1	<b>0.068</b>	0.036	0.015
ppm Water	ppm ASTM D6304 >1000	<b>681</b>	368	153

## FLUID CLEANLINESS

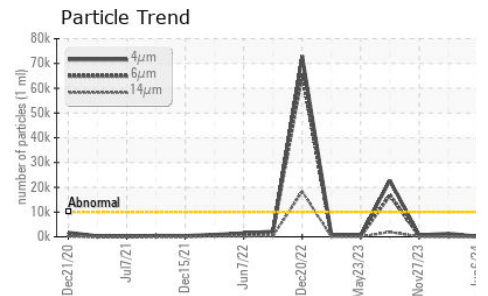
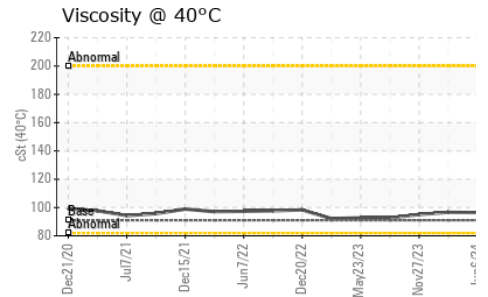
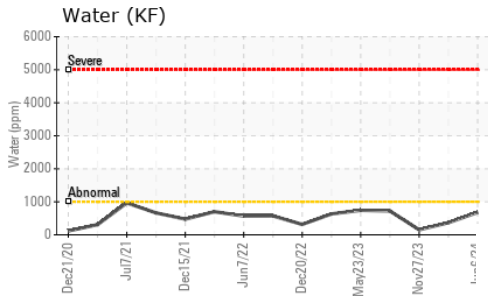
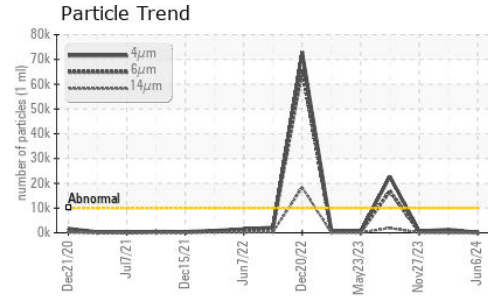
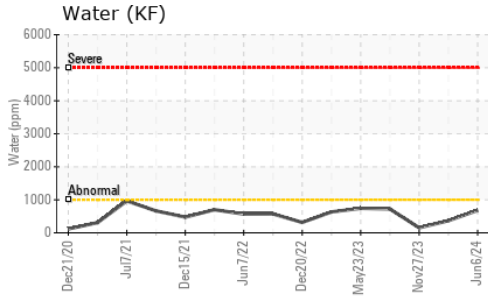
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>194</b>	1360	723
Particles >6µm	ASTM D7647 >2500	<b>86</b>	291	394
Particles >14µm	ASTM D7647 >640	<b>8</b>	26	39
Particles >21µm	ASTM D7647 >160	<b>2</b>	9	6
Particles >38µm	ASTM D7647 >40	<b>0</b>	2	0
Particles >71µm	ASTM D7647 >10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/16	<b>15/14/10</b>	18/15/12	17/16/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	<b>0.13</b>	0.08	0.18



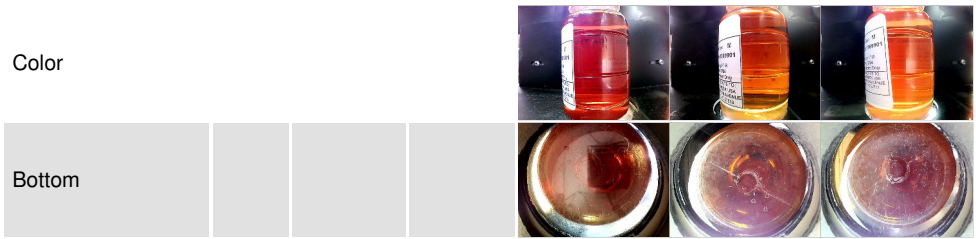
# OIL ANALYSIS REPORT



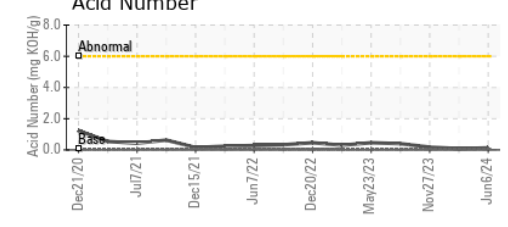
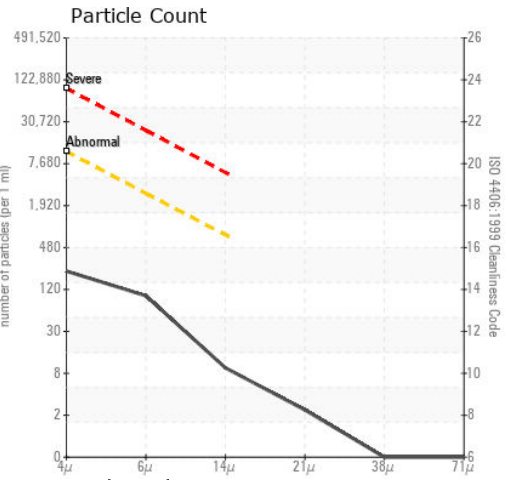
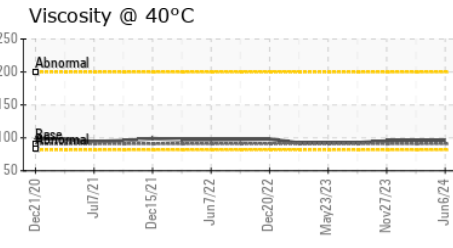
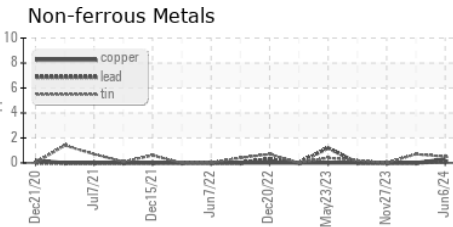
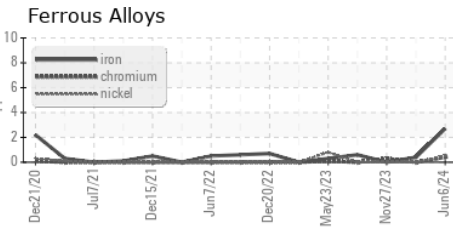
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	96.4	96.6	95.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM37708  
**Lab Number** : 06211663  
**Unique Number** : 11084527  
**Test Package** : IND 2  
**Received** : 17 Jun 2024  
**Tested** : 18 Jun 2024  
**Diagnosed** : 20 Jun 2024 - Doug Bogart

**KraftHeinz - Davenport - Plant 8394**  
 9401 GRANITE DRIVE  
 DAVENPORT, IA  
 US 52802  
 Contact: JOHN KONRAD  
 john.konrad@kraftheinz.com  
 T:

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) F: (563)326-8391