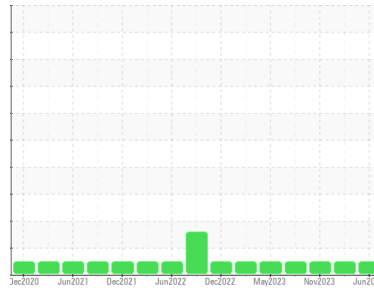




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**MS-1 - A STUFF**  
 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>USPM37726</b>	USPM30365	USPM31946
Sample Date	Client Info		<b>06 Jun 2024</b>	05 Mar 2024	28 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>38</b>	25	25
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>	<1	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>1</b>	0	0
Barium	ppm	ASTM D5185m 0	<b>1</b>	<1	0
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 0	<b>1</b>	1	1
Calcium	ppm	ASTM D5185m 0	<b>33</b>	31	35
Phosphorus	ppm	ASTM D5185m 1800	<b>1054</b>	1086	1405
Zinc	ppm	ASTM D5185m 0	<b>47</b>	44	50
Sulfur	ppm	ASTM D5185m 0	<b>0</b>	29	0

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	<b>9</b>	6	9
Sodium	ppm	ASTM D5185m	<b>17</b>	14	7
Potassium	ppm	ASTM D5185m >20	<b>4</b>	3	5
Water	%	ASTM D6304 >.1	<b>0.065</b>	0.024	0.025
ppm Water	ppm	ASTM D6304 >1000	<b>657</b>	250	252

## FLUID CLEANLINESS

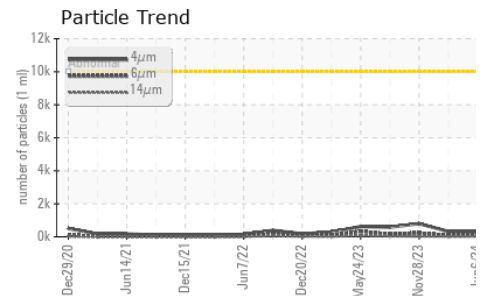
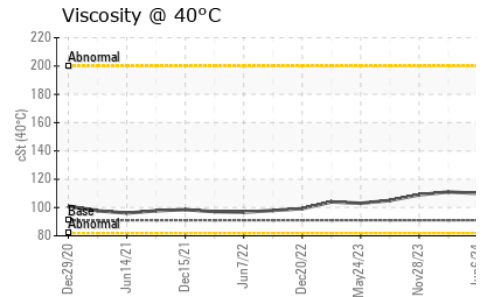
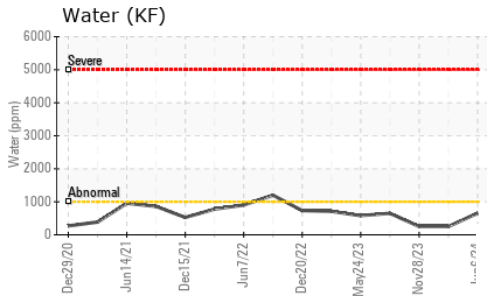
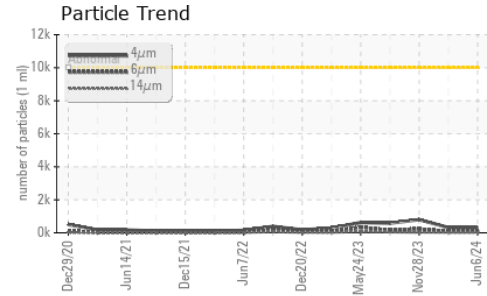
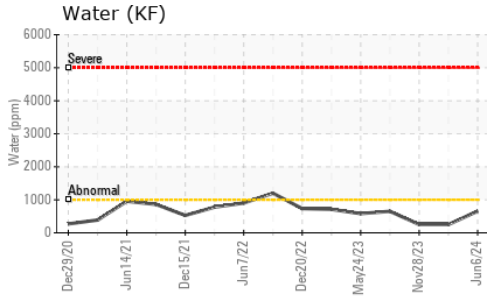
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>296</b>	319	798
Particles >6µm	ASTM D7647	>2500	<b>83</b>	86	233
Particles >14µm	ASTM D7647	>640	<b>8</b>	9	20
Particles >21µm	ASTM D7647	>160	<b>1</b>	2	4
Particles >38µm	ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/16	<b>15/14/10</b>	15/14/10	17/15/11

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	<b>0.69</b>	0.88	0.82



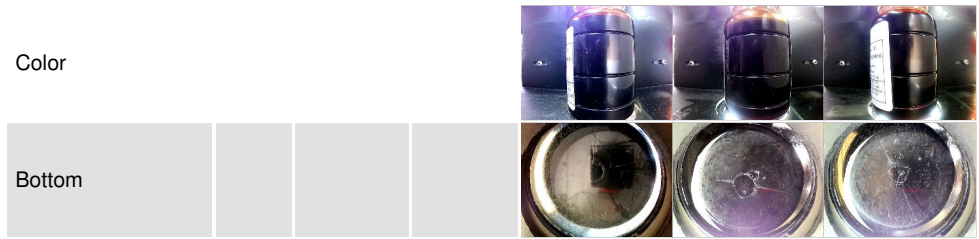
# OIL ANALYSIS REPORT



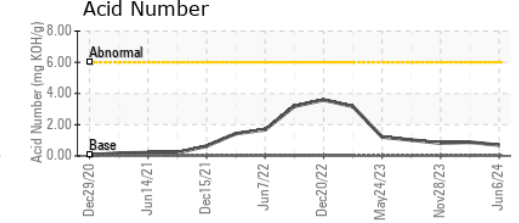
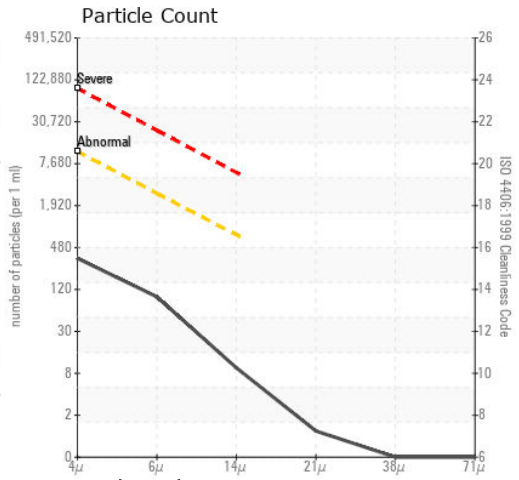
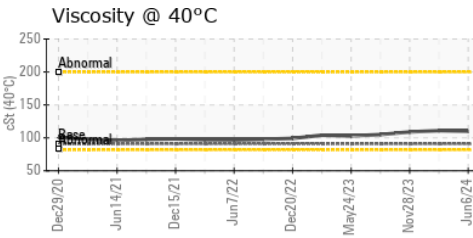
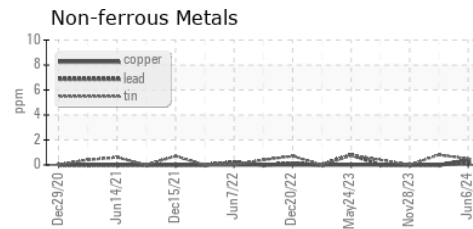
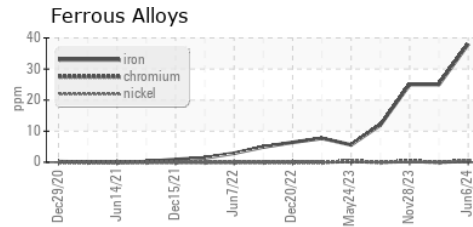
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	110	111	109

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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : USPM37726  
 Lab Number : 06211645  
 Unique Number : 11084509  
 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

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