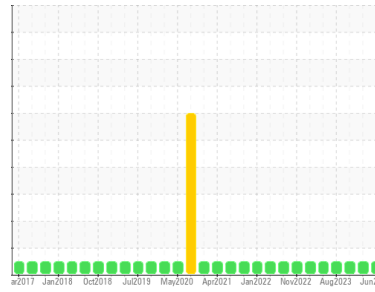




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**BUSCH CARNEB 29 VAC (S/N 7415)**  
 Component  
**Pump**  
 Fluid  
**USPI VAC 100 (--- 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>USPM37749</b>	USPM30412	USPM31532
Sample Date	Client Info	<b>16 Jun 2024</b>	13 Mar 2024	03 Dec 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>&lt;1</b>	0	1
Chromium	ppm ASTM D5185m >5	<b>&lt;1</b>	<1	0
Nickel	ppm ASTM D5185m >5	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185m >3	<b>&lt;1</b>	<1	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m >7	<b>2</b>	0	1
Lead	ppm ASTM D5185m >12	<b>&lt;1</b>	0	0
Copper	ppm ASTM D5185m >30	<b>&lt;1</b>	0	<1
Tin	ppm ASTM D5185m >9	<b>&lt;1</b>	1	0
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	<1	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>	<1	0
Magnesium	ppm ASTM D5185m 0	<b>0</b>	0	0
Calcium	ppm ASTM D5185m 0	<b>0</b>	0	0
Phosphorus	ppm ASTM D5185m 1800	<b>1306</b>	1333	1516
Zinc	ppm ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm ASTM D5185m 0	<b>0</b>	0	13

## CONTAMINANTS

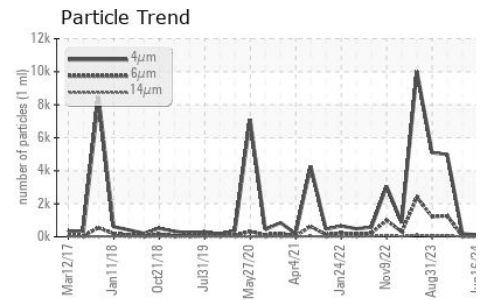
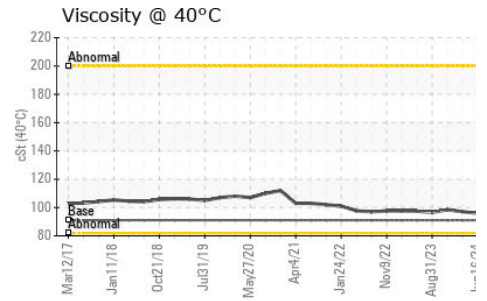
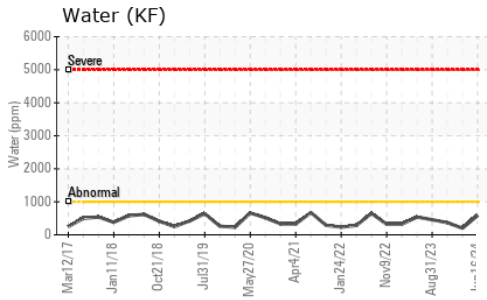
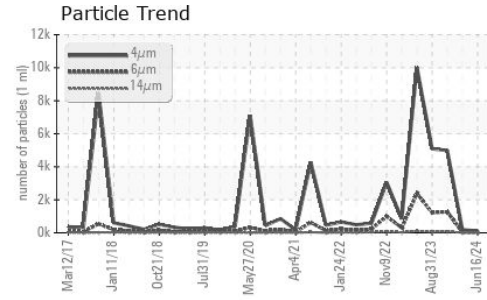
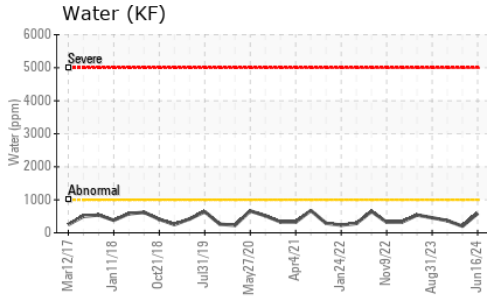
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	<b>7</b>	5	7
Sodium	ppm ASTM D5185m	<b>0</b>	<1	0
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	2	1
Water	% ASTM D6304 >.1	<b>0.058</b>	0.020	0.036
ppm Water	ppm ASTM D6304 >1000	<b>585</b>	200	368

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>113</b>	187	4985
Particles >6µm	ASTM D7647 >2500	<b>34</b>	39	1268
Particles >14µm	ASTM D7647 >320	<b>3</b>	6	77
Particles >21µm	ASTM D7647 >80	<b>1</b>	3	21
Particles >38µm	ASTM D7647 >20	<b>0</b>	1	1
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/18/15	<b>14/12/9</b>	15/12/10	19/17/13

## FLUID DEGRADATION

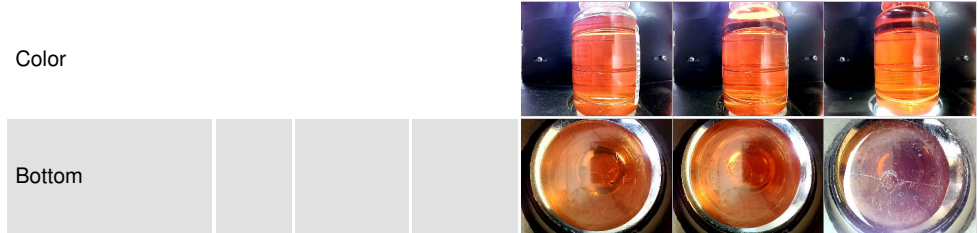
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	<b>0.12</b>	0.04	0.12



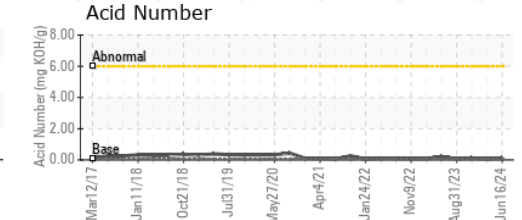
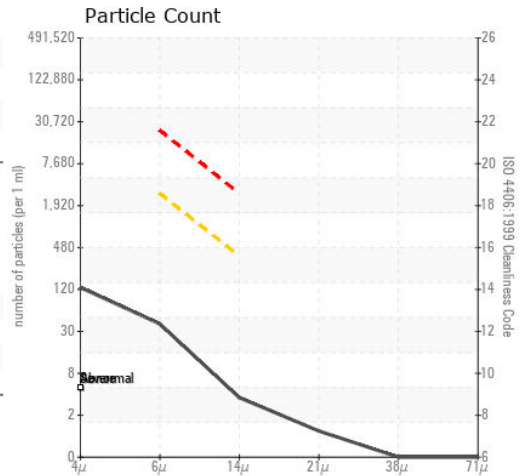
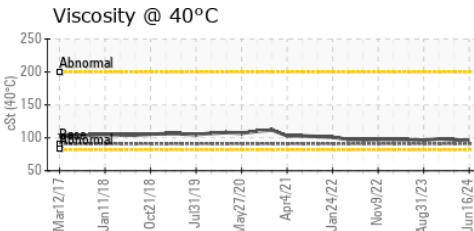
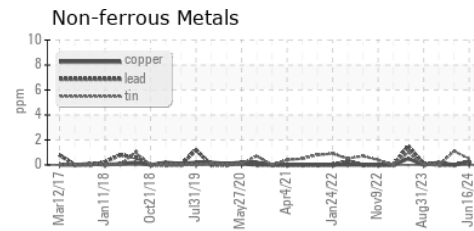
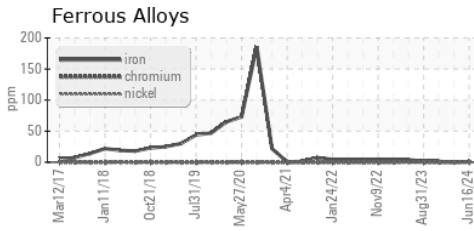
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	95.9	97.1	98.4

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. : USPM37749  
 Lab Number : 06211677  
 Unique Number : 11084541  
 Test Package : IND 2

Received : 17 Jun 2024  
 Tested : 18 Jun 2024  
 Diagnosed : 20 Jun 2024 - Doug Bogart

CARGILL FOODS

NEBRASKA CITY, NE  
 US

Contact: SERVICE MANAGER

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)

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 F: