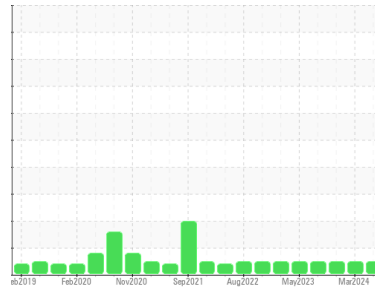




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**L-6**  
 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>USPM37858</b>	USPM36884	USPM31613
Sample Date	Client Info	<b>24 Jun 2024</b>	19 Mar 2024	24 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>0</b>	0	0
Chromium	ppm ASTM D5185m >5	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm ASTM D5185m >3	<b>0</b>	0	0
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>0</b>	0	0
Copper	ppm ASTM D5185m >30	<b>0</b>	0	0
Tin	ppm ASTM D5185m >9	<b>0</b>	<1	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 0	<b>0</b>	<1	0
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>0</b>	<1	0
Magnesium	ppm ASTM D5185m 0	<b>0</b>	0	<1
Calcium	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Phosphorus	ppm ASTM D5185m 1800	<b>1730</b>	1737	1723
Zinc	ppm ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm ASTM D5185m 0	<b>0</b>	0	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	<b>1</b>	2	2
Sodium	ppm ASTM D5185m	<b>0</b>	0	0
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	0	0
Water	% ASTM D6304 >.1	<b>0.054</b>	0.028	0.020
ppm Water	ppm ASTM D6304 >1000	<b>550</b>	283	208

## FLUID CLEANLINESS

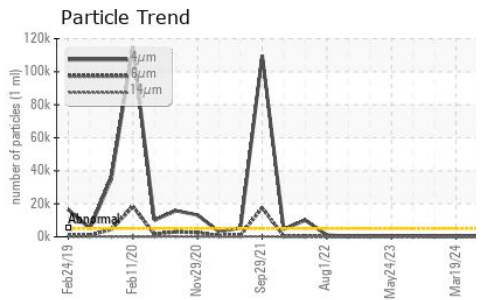
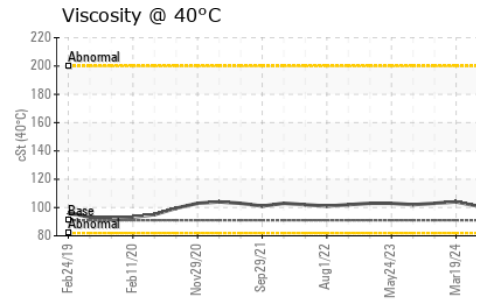
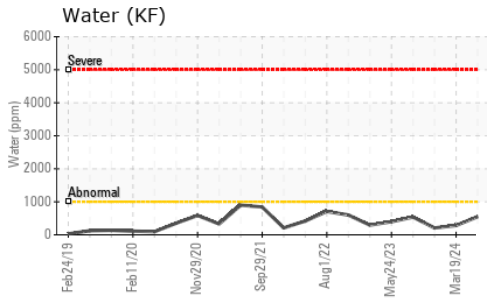
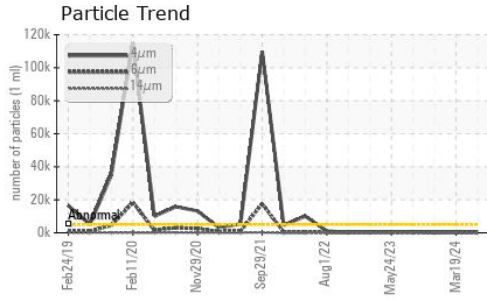
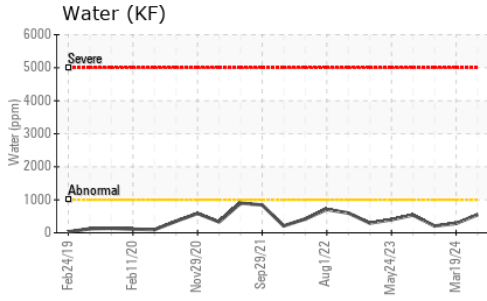
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>455</b>	247	158
Particles >6µm	ASTM D7647 >1300	<b>141</b>	84	50
Particles >14µm	ASTM D7647 >160	<b>9</b>	18	6
Particles >21µm	ASTM D7647 >40	<b>2</b>	12	2
Particles >38µm	ASTM D7647 >10	<b>0</b>	1	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>16/14/10</b>	15/14/11	14/13/10

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	<b>0.16</b>	0.16	0.14



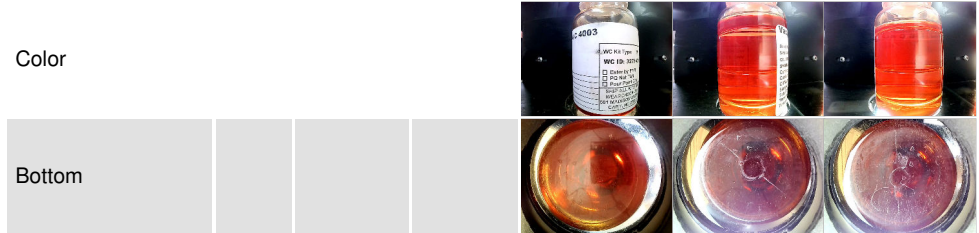
# OIL ANALYSIS REPORT



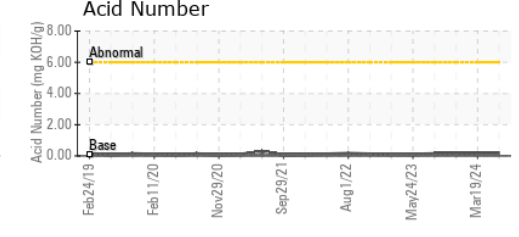
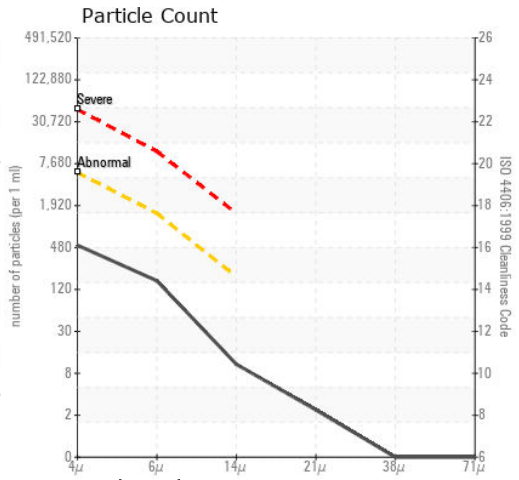
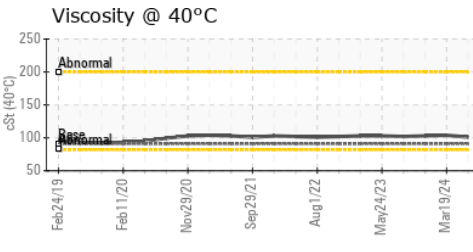
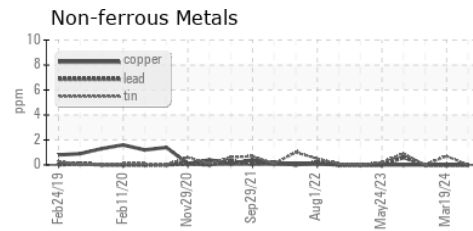
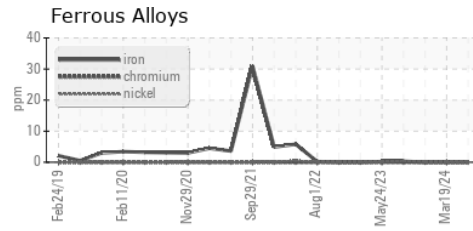
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	101	104	103

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. : USPM37858  
 Lab Number : 06219742  
 Unique Number : 11097939  
 Test Package : IND 2

Received : 25 Jun 2024  
 Tested : 26 Jun 2024  
 Diagnosed : 26 Jun 2024 - Doug Bogart

SMITHFIELD FOODS - GRAYSON  
 800 C W STEVENS BLVD  
 GRAYSON, KY  
 US 41143  
 Contact:

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)

T:  
F: