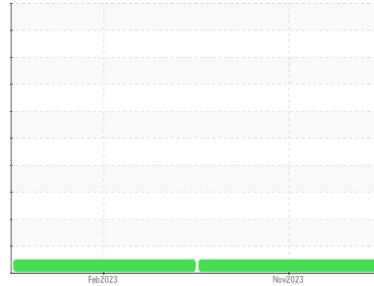




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**LOG LOADING**  
 Component  
**Vacuum 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>USPM31190</b>	USPM24332	---
Sample Date	Client Info	<b>06 Nov 2023</b>	28 Feb 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	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<b>0</b>	0	---
Chromium ppm ASTM D5185m	>20	<b>0</b>	0	---
Nickel ppm ASTM D5185m	>20	<b>1</b>	0	---
Titanium ppm ASTM D5185m		<b>0</b>	0	---
Silver ppm ASTM D5185m		<b>0</b>	0	---
Aluminum ppm ASTM D5185m	>20	<b>&lt;1</b>	0	---
Lead ppm ASTM D5185m	>20	<b>&lt;1</b>	0	---
Copper ppm ASTM D5185m	>20	<b>&lt;1</b>	0	---
Tin ppm ASTM D5185m	>20	<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	0	<b>0</b>	0	---
Barium ppm ASTM D5185m	0	<b>0</b>	0	---
Molybdenum ppm ASTM D5185m	0	<b>0</b>	0	---
Manganese ppm ASTM D5185m		<b>0</b>	<1	---
Magnesium ppm ASTM D5185m	0	<b>0</b>	0	---
Calcium ppm ASTM D5185m	0	<b>2</b>	0	---
Phosphorus ppm ASTM D5185m	1800	<b>355</b>	6	---
Zinc ppm ASTM D5185m	0	<b>0</b>	0	---
Sulfur ppm ASTM D5185m	0	<b>63</b>	0	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>6</b>	4	---
Sodium ppm ASTM D5185m		<b>2</b>	0	---
Potassium ppm ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water % ASTM D6304	>.1	<b>0.024</b>	0.005	---
ppm Water ppm ASTM D6304	>1000	<b>244.8</b>	53.7	---

## FLUID CLEANLINESS

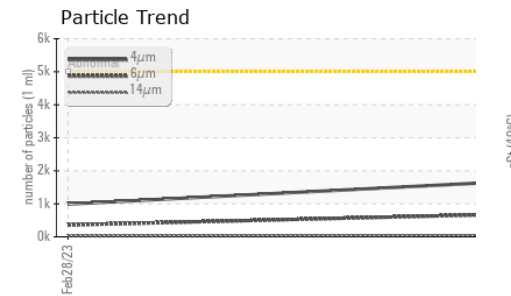
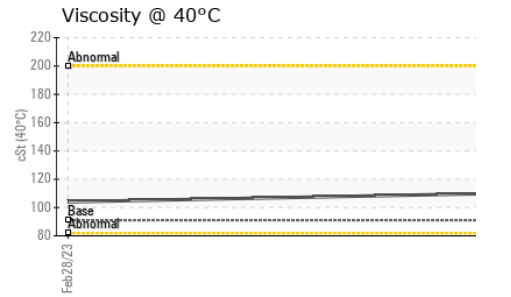
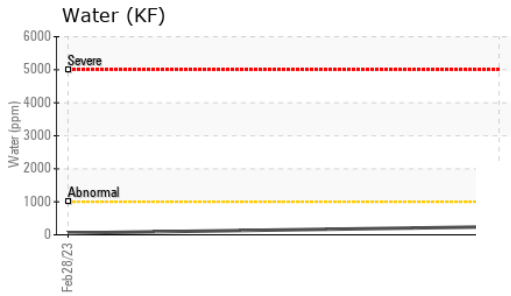
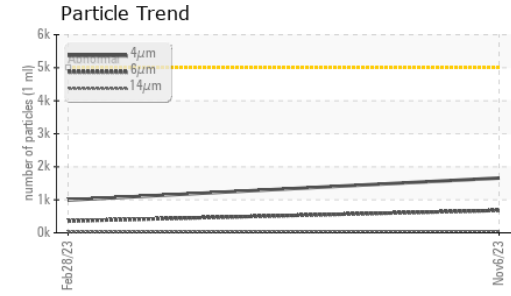
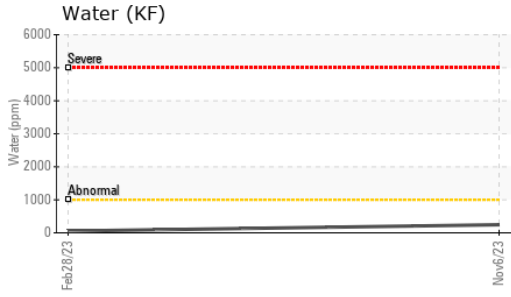
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>1658</b>	993	---
Particles >6µm ASTM D7647	>1300	<b>679</b>	359	---
Particles >14µm ASTM D7647	>160	<b>49</b>	28	---
Particles >21µm ASTM D7647	>40	<b>12</b>	7	---
Particles >38µm ASTM D7647	>10	<b>3</b>	0	---
Particles >71µm ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>18/17/13</b>	17/16/12	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.05	<b>0.21</b>	0.063	---



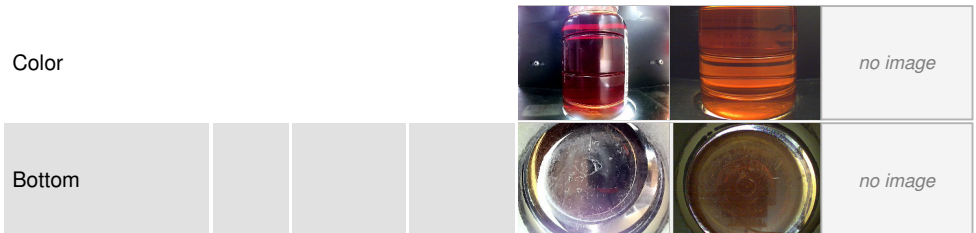
# OIL ANALYSIS REPORT



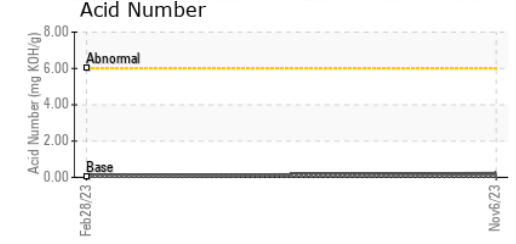
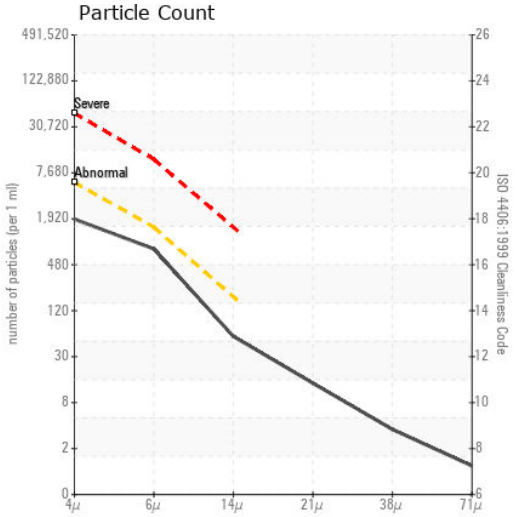
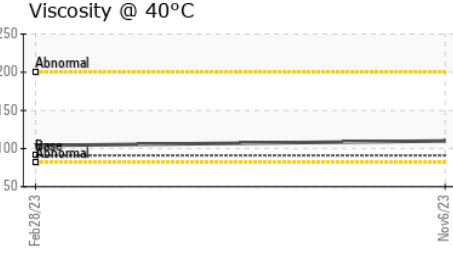
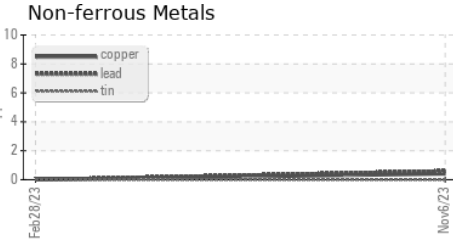
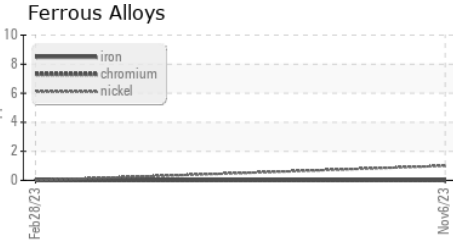
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	110	104	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM31190 **Received** : 07 Nov 2023  
**Lab Number** : 06000564 **Diagnosed** : 08 Nov 2023  
**Unique Number** : 10728924 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**SMITHFIELD FOODS - KINSTON**  
 KINSTON, NC  
 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)

T:  
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