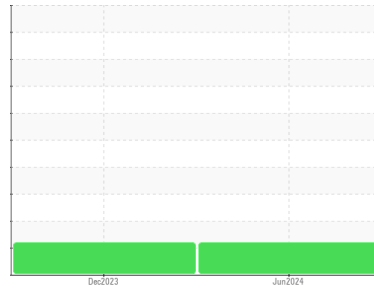




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**TRANSPORT 2 EMPTY CAM**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL FG ISO 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### 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>USPR000648</b>	USP216384	---
Sample Date	Client Info			<b>12 Jun 2024</b>	17 Dec 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>ABNORMAL</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>8</b>	5	---
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<b>3</b>	29	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	5	<b>2</b>	0	---
Calcium	ppm	ASTM D5185m	12	<b>49</b>	379	---
Phosphorus	ppm	ASTM D5185m	400	<b>589</b>	295	---
Zinc	ppm	ASTM D5185m	12	<b>2</b>	0	---
Sulfur	ppm	ASTM D5185m	750	<b>2265</b>	12809	---

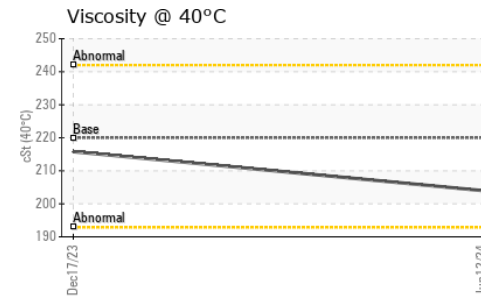
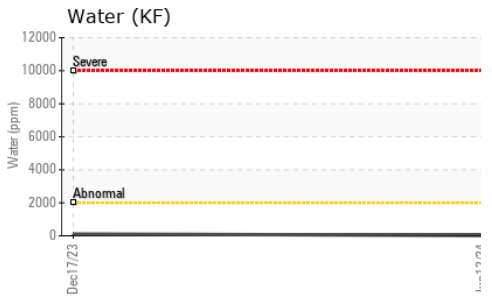
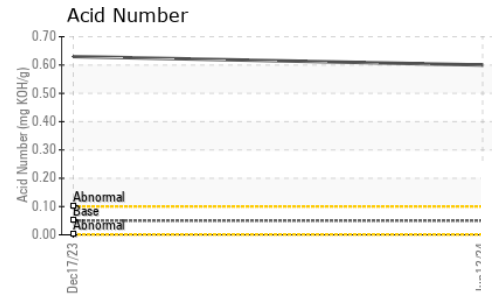
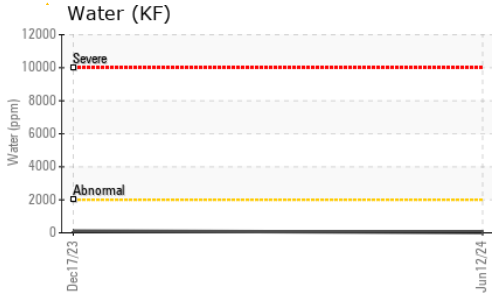
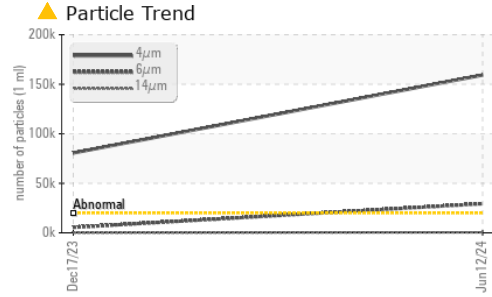
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>4</b>	<1	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water	%	ASTM D6304	>0.2	<b>0.002</b>	0.011	---
ppm Water	ppm	ASTM D6304	>2000	<b>20</b>	114	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>▲ 159319</b>	▲ 80634	---
Particles >6µm		ASTM D7647	>5000	<b>▲ 29342</b>	● 5494	---
Particles >14µm		ASTM D7647	>640	<b>446</b>	50	---
Particles >21µm		ASTM D7647	>160	<b>59</b>	8	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 24/22/16</b>	▲ 24/20/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	<b>0.60</b>	0.63	---



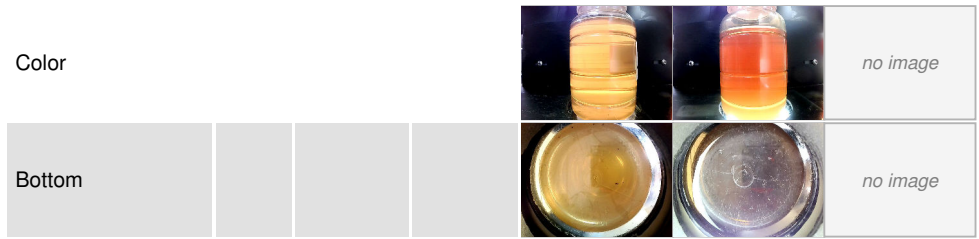
# OIL ANALYSIS REPORT



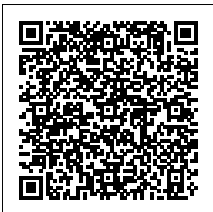
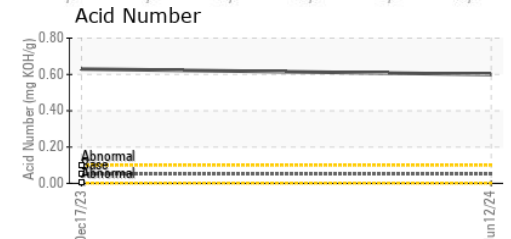
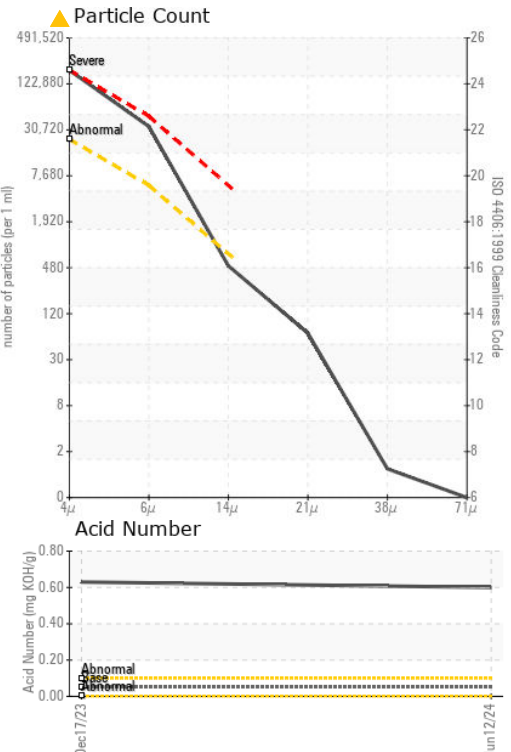
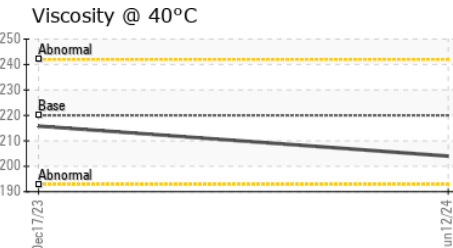
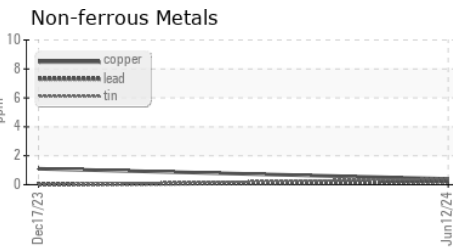
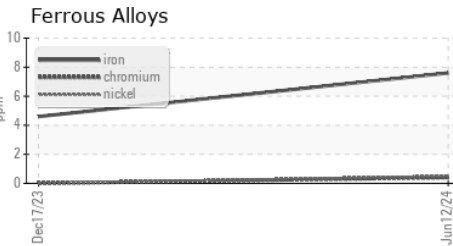
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	204	215.8

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.** : USPR000648  
**Lab Number** : 06211630  
**Unique Number** : 11084494  
**Test Package** : IND 2

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

**SMITHFIELD FOODS - SMILM**  
 22123 HWY 5  
 MILAN, MO  
 US 63556  
 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: