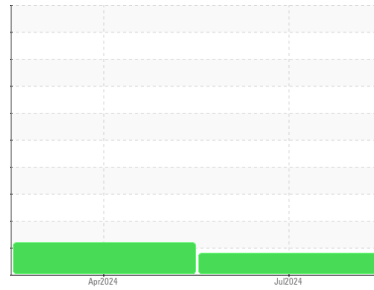




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

[17165319]

Machine Id

NEW COOLER INFEED

Component

Gearbox

Fluid

USPI FG GEAR 220 (--- GAL)

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 6 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		USP241921	USP0007818	---
Sample Date	Client Info		09 Jul 2024	10 Apr 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ATTENTION	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	9	28
Chromium	ppm	ASTM D5185m	>15	<1	0
Nickel	ppm	ASTM D5185m	>15	0	---
Titanium	ppm	ASTM D5185m		<1	0
Silver	ppm	ASTM D5185m		<1	0
Aluminum	ppm	ASTM D5185m	>25	4	0
Lead	ppm	ASTM D5185m	>100	0	---
Copper	ppm	ASTM D5185m	>200	<1	0
Tin	ppm	ASTM D5185m	>25	<1	0
Vanadium	ppm	ASTM D5185m		<1	0
Cadmium	ppm	ASTM D5185m		<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		<1	0
Manganese	ppm	ASTM D5185m		0	<1
Magnesium	ppm	ASTM D5185m		<1	0
Calcium	ppm	ASTM D5185m		0	13
Phosphorus	ppm	ASTM D5185m		185	215
Zinc	ppm	ASTM D5185m		3	0
Sulfur	ppm	ASTM D5185m		1243	3984

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	1
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	1	0
Water	%	ASTM D6304	>0.2	0.006	0.001
ppm Water	ppm	ASTM D6304	>2000	63	2

## FLUID CLEANLINESS

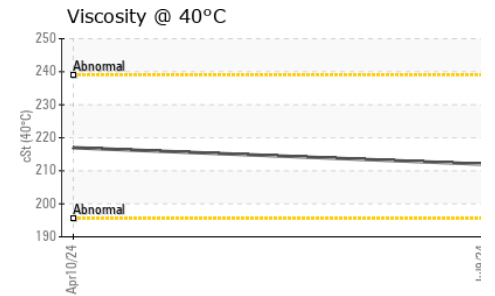
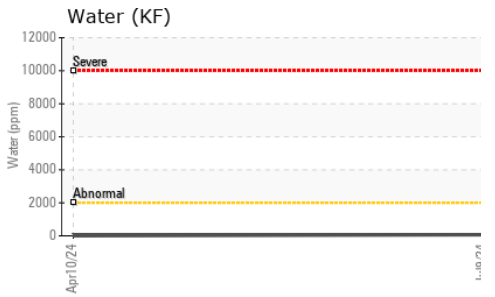
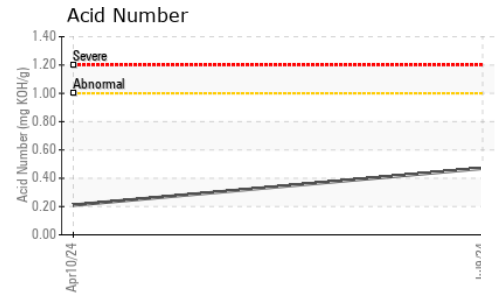
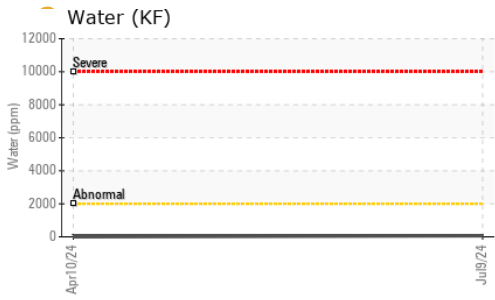
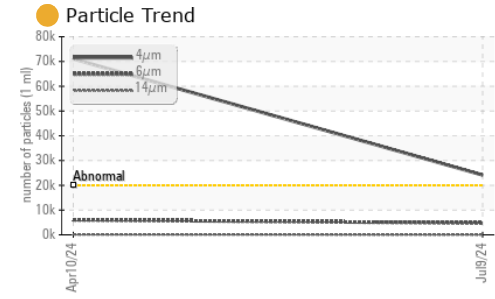
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	24148	71061	---
Particles >6µm	ASTM D7647	>5000	4747	6020	---
Particles >14µm	ASTM D7647	>640	46	112	---
Particles >21µm	ASTM D7647	>160	7	22	---
Particles >38µm	ASTM D7647	>40	0	0	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	22/19/13	23/20/14	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.47	0.21



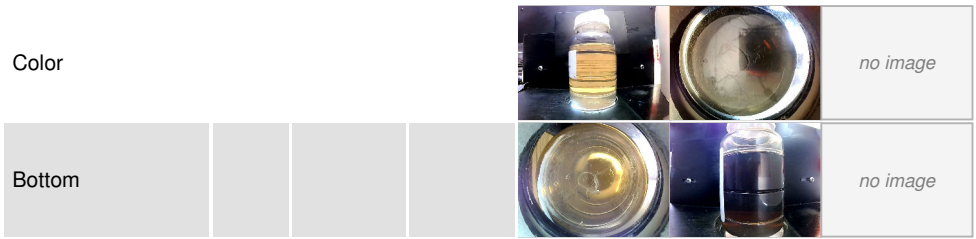
# OIL ANALYSIS REPORT



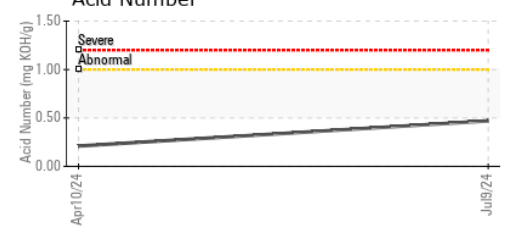
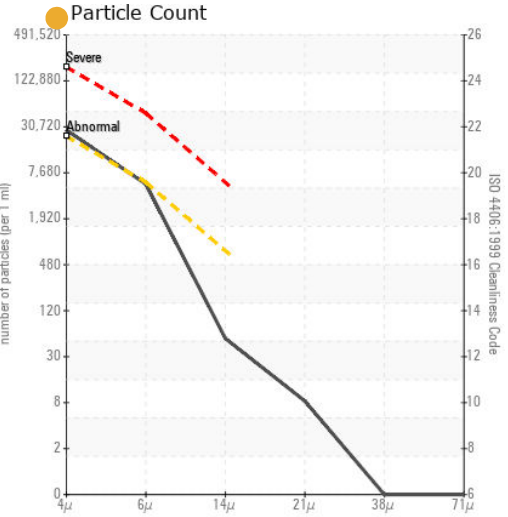
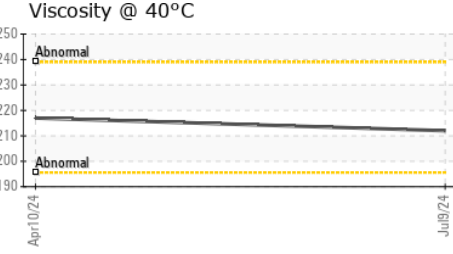
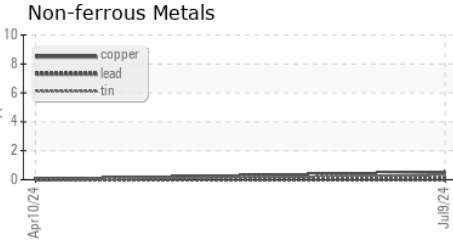
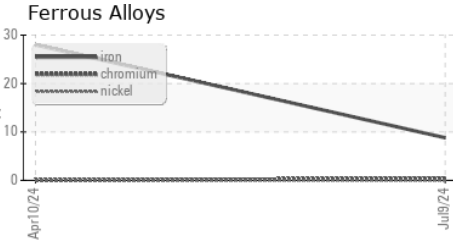
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	212	217	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP241921      **Received** : 18 Jul 2024  
**Lab Number** : 06240365      **Tested** : 19 Jul 2024  
**Unique Number** : 11129199      **Diagnosed** : 19 Jul 2024 - Doug Bogart  
**Test Package** : IND 2

**SMITHFIELD FOODS - SMIMIL**  
 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)