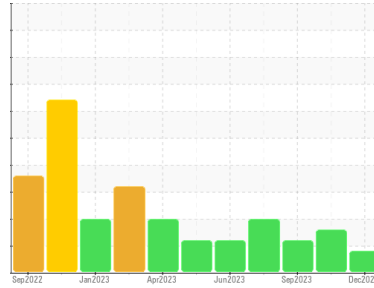




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

**FAB**

Machine Id

**CONE LINE (S/N 11546557-MW-6015)**

Component

**Main Gearbox**

Fluid

**GEAR OIL (PAG) 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 < 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		<b>USP0004886</b>	USP242315	USP0001978
Sample Date	Client Info		<b>16 Dec 2023</b>	13 Nov 2023	13 Sep 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>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>0</b>	1	<1
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>4</b>	3	2
Tin	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
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	5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	5	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	<1
Phosphorus	ppm	ASTM D5185m	775	<b>431</b>	383	379
Zinc	ppm	ASTM D5185m	5	<b>0</b>	3	<1
Sulfur	ppm	ASTM D5185m	2000	<b>946</b>	993	1032

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>2</b>	2	3
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Water	%	ASTM D6304	>0.2	<b>0.003</b>	0.010	0.004
ppm Water	ppm	ASTM D6304	>2000	<b>30</b>	101.8	47.5

## FLUID CLEANLINESS

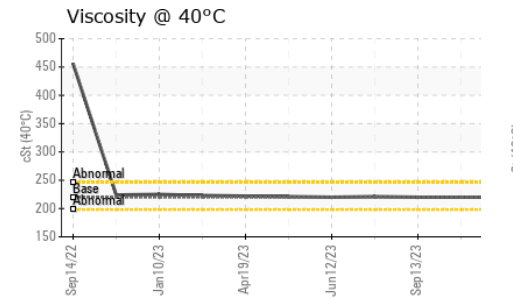
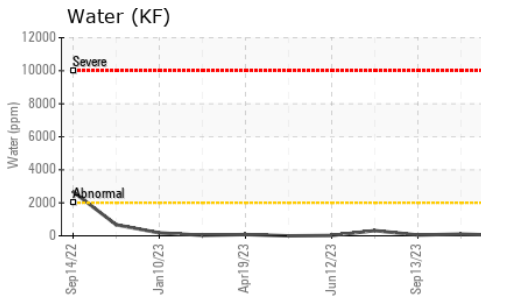
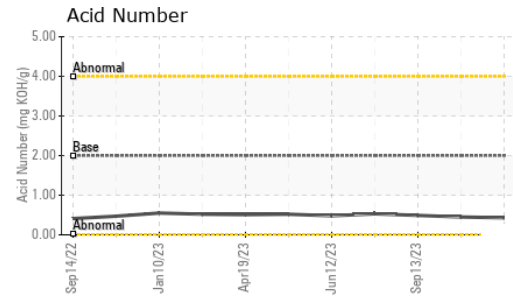
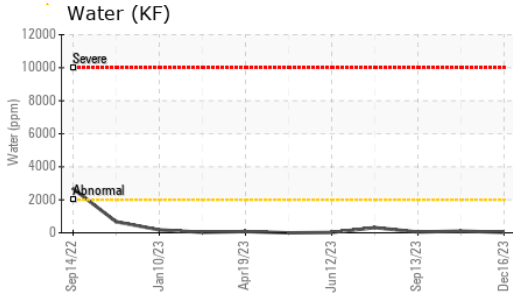
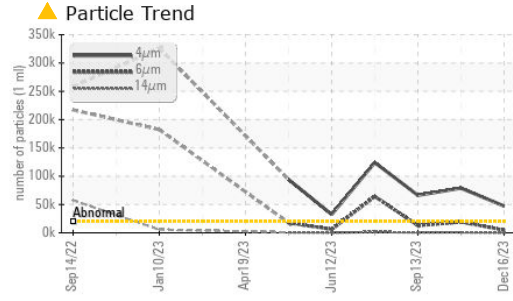
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 47225</b>	▲ 78964	▲ 66244
Particles >6µm	ASTM D7647	>5000	<b>4644</b>	▲ 19209	▲ 13029
Particles >14µm	ASTM D7647	>640	<b>65</b>	▲ 779	557
Particles >21µm	ASTM D7647	>160	<b>13</b>	133	119
Particles >38µm	ASTM D7647	>40	<b>0</b>	4	6
Particles >71µm	ASTM D7647	>10	<b>0</b>	1	3
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 23/19/13</b>	▲ 23/21/17	▲ 23/21/16

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	<b>0.43</b>	0.45	0.49



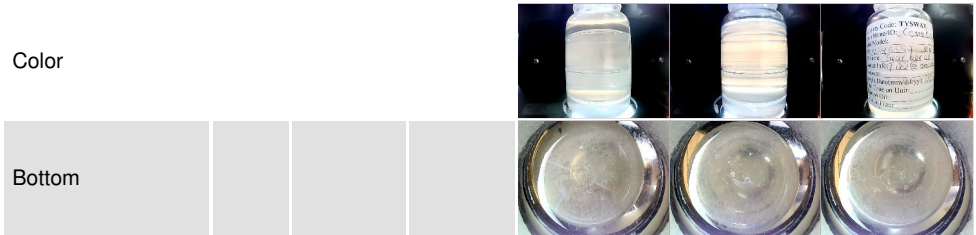
# OIL ANALYSIS REPORT



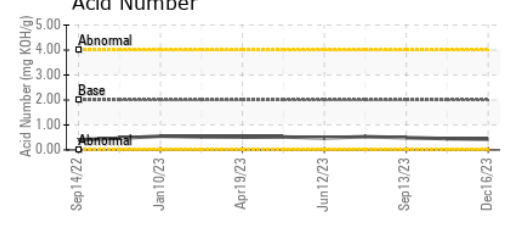
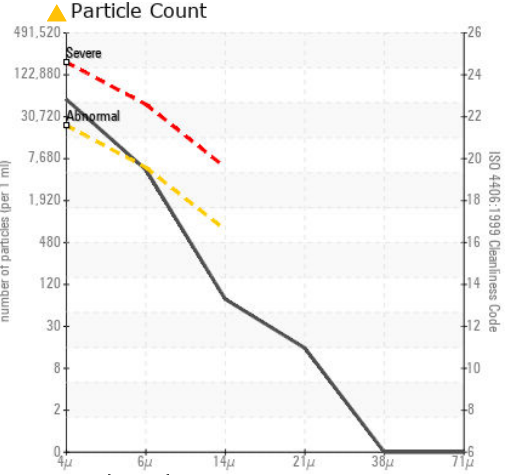
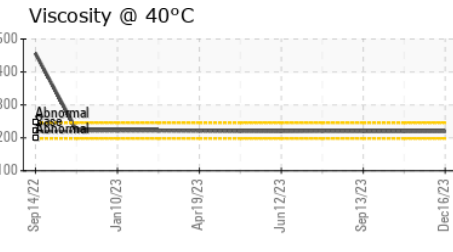
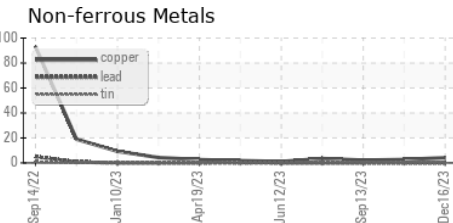
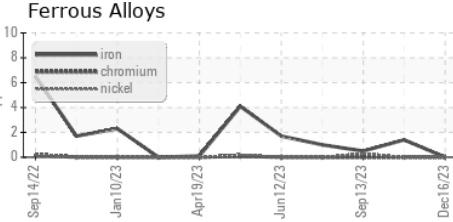
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

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

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0004886 **Received** : 19 Jan 2024  
**Lab Number** : 06065662 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10837044 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**TYSON - SMART CHICKEN MBA**  
 13151 DOVER ST  
 WAVERLY, NE  
 US 68462  
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 kconradt@smartchicken.com  
 T: (402)786-1072  
 F:

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)