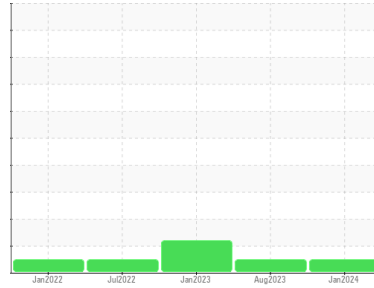




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**North Plant-Purification**  
 Machine Id  
**AG-32331**

Component  
**Gear Reducer**  
 Fluid  
**ROYAL PURPLE SYNFILM GT 320 (30 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

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0870642</b>	WC0786779	WC0765963
Sample Date	Client Info	<b>10 Jan 2024</b>	10 Aug 2023	20 Jan 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	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>250	<b>7</b>	6	8
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	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		<b>0</b>	0
Barium	ppm	ASTM D5185m		<b>0</b>	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0
Magnesium	ppm	ASTM D5185m	90	<b>78</b>	68
Calcium	ppm	ASTM D5185m		<b>2</b>	1
Phosphorus	ppm	ASTM D5185m		<b>40</b>	4
Zinc	ppm	ASTM D5185m		<b>0</b>	4
Sulfur	ppm	ASTM D5185m		<b>20470</b>	20891

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>60	<b>&lt;1</b>	<1
Sodium	ppm	ASTM D5185m		<b>0</b>	0
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1
Water	%	ASTM D6304	>0.2	<b>0.015</b>	0.043
ppm Water	ppm	ASTM D6304	>2000	<b>150</b>	436.1

## FLUID CLEANLINESS

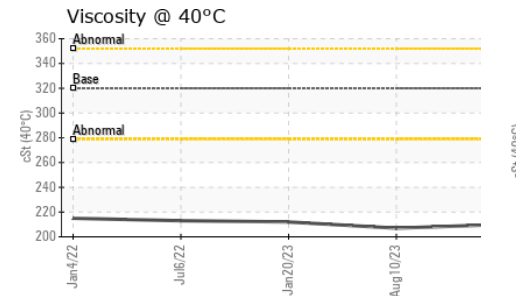
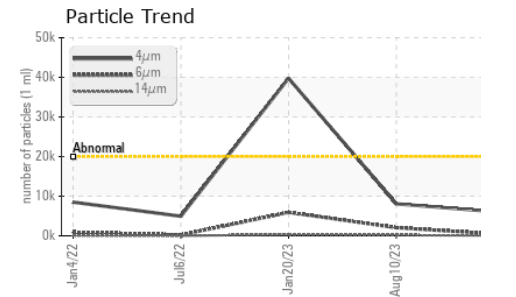
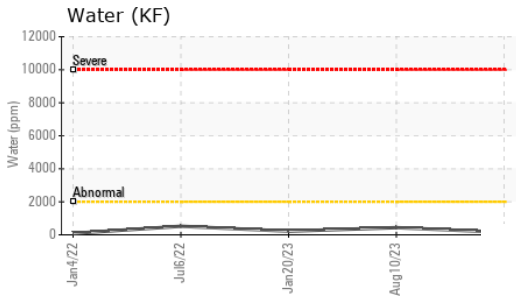
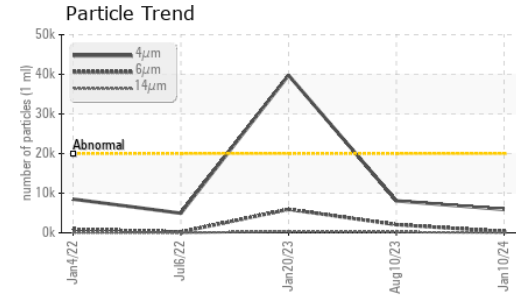
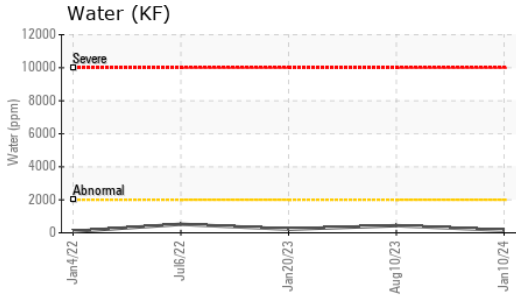
method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>20000	<b>5897</b>	8073	▲ 39768
Particles >6µm	ASTM D7647	>5000	<b>321</b>	2056	▲ 5914
Particles >14µm	ASTM D7647	>640	<b>26</b>	183	314
Particles >21µm	ASTM D7647	>160	<b>7</b>	47	83
Particles >38µm	ASTM D7647	>40	<b>1</b>	1	2
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>20/16/12</b>	20/18/15	▲ 22/20/15

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	<b>0.40</b>	0.47



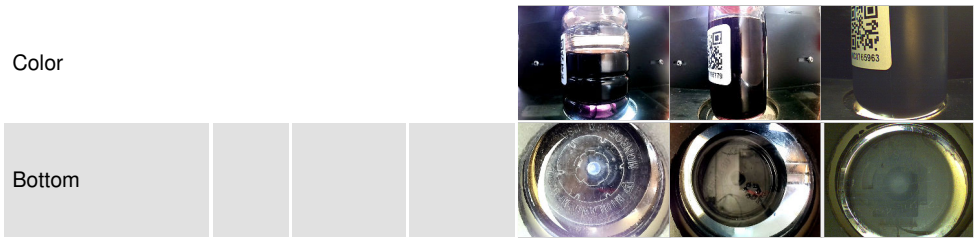
# OIL ANALYSIS REPORT



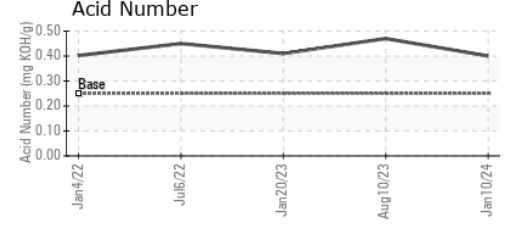
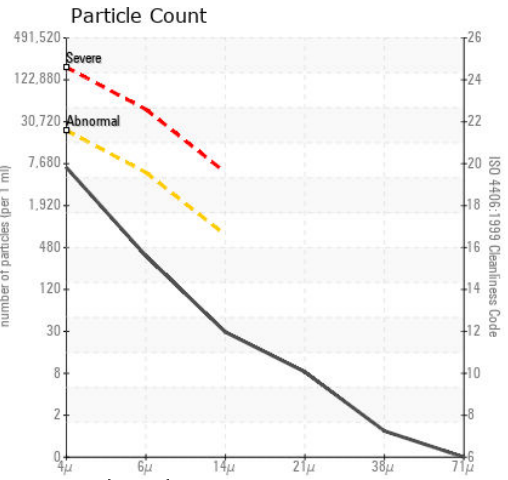
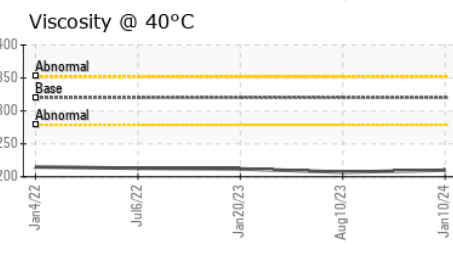
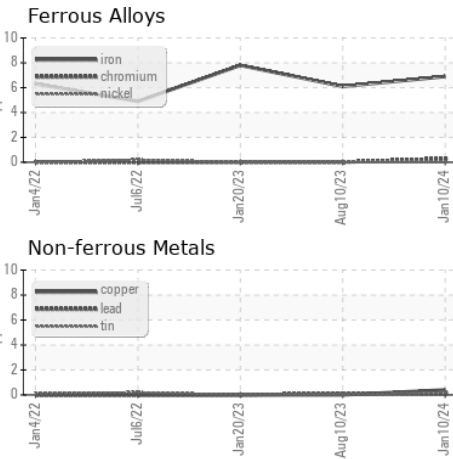
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 320	210	207	212

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0870642 **Received** : 16 Jan 2024  
**Lab Number** : 06061926 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833308 **Diagnostician** : Don Baldrige  
**Test Package** : PLANT

**AJINOMOTO ANIMAL NUTRITION NORTH AMERICA, INC.**  
 1116 HWY 137  
 EDDYVILLE, IA  
 US 52553  
 Contact: Alan Brittain  
 brittaina@ajjusa.com  
 T: (641)295-0086  
 F:

Certificate L2367  
 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)