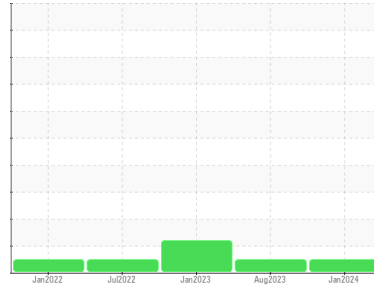




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**North Plant-Purification**  
 Machine Id  
**AG-32518**

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>WC0870647</b>	WC0804718	WC0765961
Sample Date	Client Info		<b>10 Jan 2024</b>	10 Aug 2023	20 Jan 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>NORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>250	<b>7</b>	2	11
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>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
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	0
Barium	ppm	ASTM D5185m		<b>0</b>	<1	1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	90	<b>42</b>	9	64
Calcium	ppm	ASTM D5185m		<b>1</b>	0	1
Phosphorus	ppm	ASTM D5185m		<b>37</b>	6	11
Zinc	ppm	ASTM D5185m		<b>0</b>	3	5
Sulfur	ppm	ASTM D5185m		<b>18139</b>	20001	18656

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>60	<b>&lt;1</b>	3	1
Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	<1
Water	%	ASTM D6304	>0.2	<b>0.005</b>	0.028	0.010
ppm Water	ppm	ASTM D6304	>2000	<b>58</b>	283.9	107.5

## FLUID CLEANLINESS

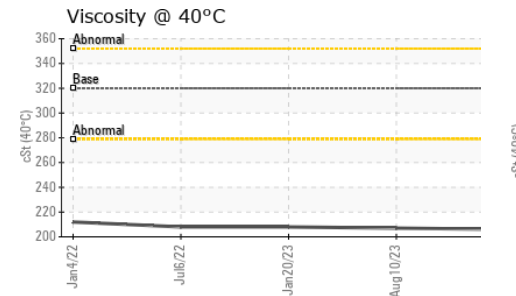
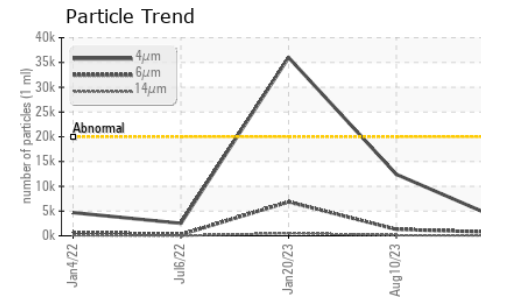
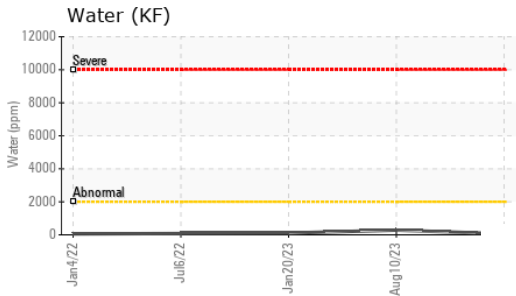
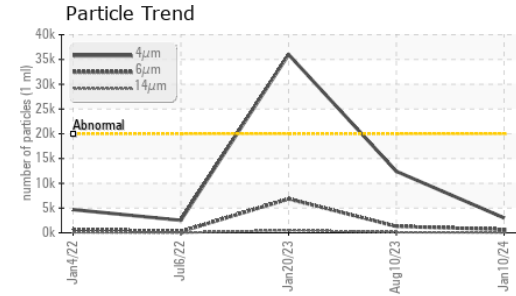
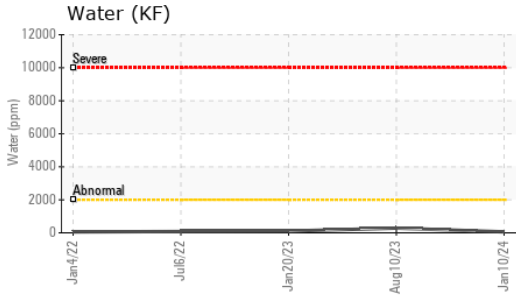
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>3010</b>	12410	▲ 36001
Particles >6µm	ASTM D7647	>5000	<b>663</b>	1297	▲ 6851
Particles >14µm	ASTM D7647	>640	<b>63</b>	116	512
Particles >21µm	ASTM D7647	>160	<b>15</b>	28	155
Particles >38µm	ASTM D7647	>40	<b>1</b>	1	4
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>19/17/13</b>	21/17/14	▲ 22/20/16

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	<b>0.49</b>	0.51	0.50



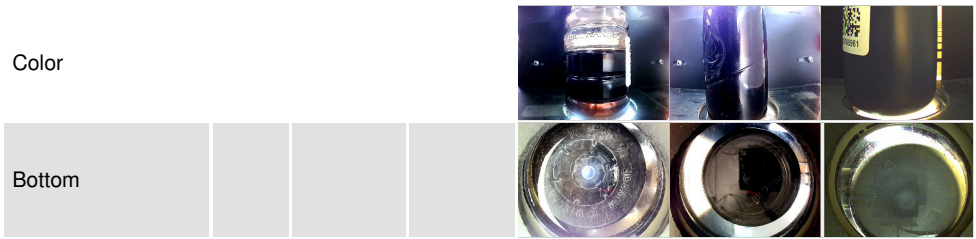
# OIL ANALYSIS REPORT



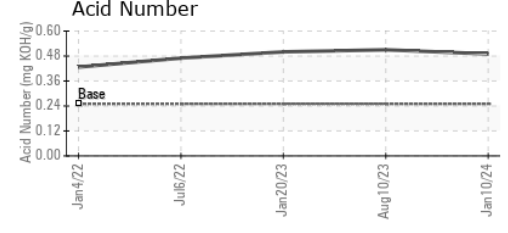
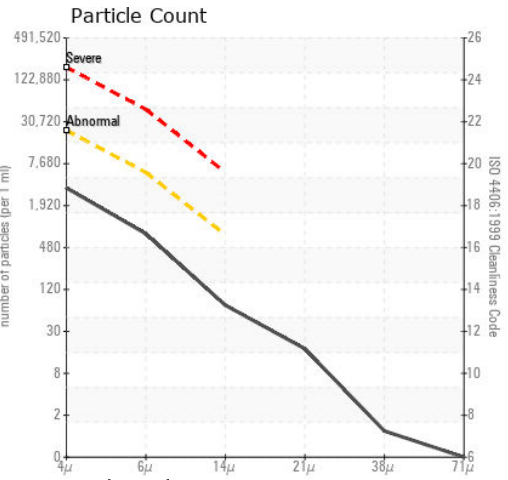
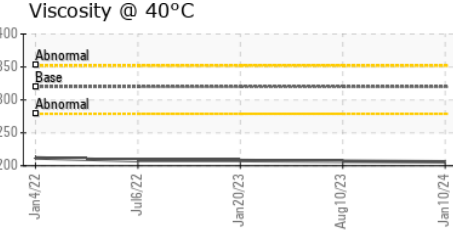
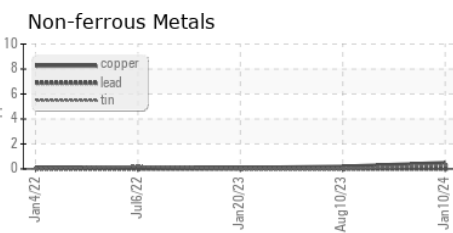
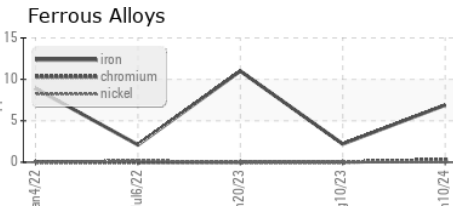
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	206	207	208

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0870647 **Received** : 16 Jan 2024  
**Lab Number** : 06061930 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833312 **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)