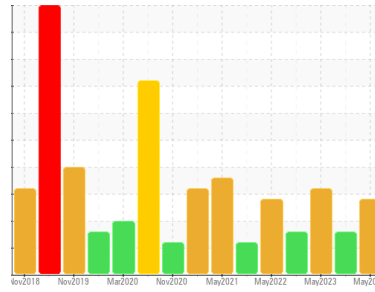




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**Mameno**  
 Machine Id  
**A5001B**  
 Component  
**Gearbox**

Fluid  
**HIGH PERFORMANCE LUBRICANTS GEAR LIFE 460 (4 GAL)**

## DIAGNOSIS

### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample at the next service interval to monitor.

### Wear

The tin level is abnormal. Bearing and/or bushing wear is indicated.

### Contamination

There is a high amount of particulates 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>WC0941387</b>	WC0850024	WC0804693
Sample Date	Client Info	<b>24 May 2024</b>	30 Nov 2023	26 May 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<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>130</b>	13	27
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</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 >25	<b>6</b>	<1	<1
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >200	<b>88</b>	11	▲ 156
Tin	ppm	ASTM D5185m >10	▲ <b>15</b>	<1	▲ 15
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	<1	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m	<b>1</b>	2	2
Calcium	ppm	ASTM D5185m	<b>2</b>	13	14
Phosphorus	ppm	ASTM D5185m	<b>137</b>	173	173
Zinc	ppm	ASTM D5185m	<b>5</b>	12	23
Sulfur	ppm	ASTM D5185m	<b>17348</b>	20339	22868

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<b>15</b>	4	13
Sodium	ppm	ASTM D5185m	<b>12</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	3
Water	%	ASTM D6304 >0.2	<b>0.002</b>	0.015	0.003
ppm Water	ppm	ASTM D6304 >2000	<b>24</b>	156	29.4

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ <b>281526</b>	▲ 197413	▲ 145082
Particles >6µm	ASTM D7647 >1300	▲ <b>154893</b>	▲ 37991	▲ 30437
Particles >14µm	ASTM D7647 >160	▲ <b>7272</b>	▲ 204	▲ 142
Particles >21µm	ASTM D7647 >40	▲ <b>1174</b>	28	19
Particles >38µm	ASTM D7647 >10	<b>6</b>	1	1
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/17/14	▲ <b>25/24/20</b>	▲ 25/22/15	▲ 24/22/14

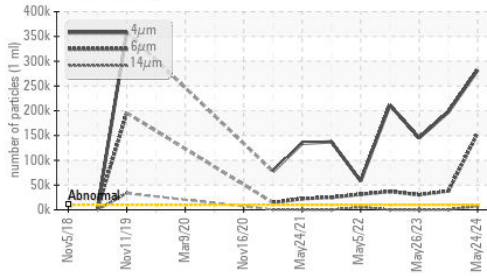
## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.64</b>	0.65	0.67

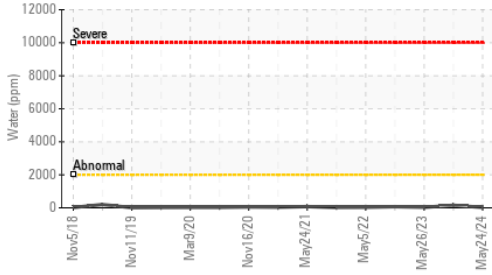


# OIL ANALYSIS REPORT

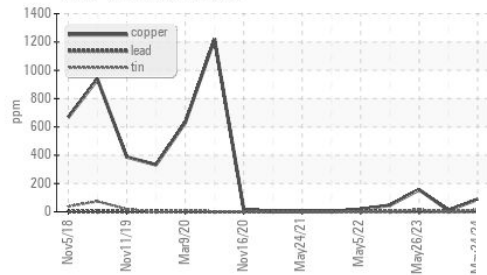
## Particle Trend



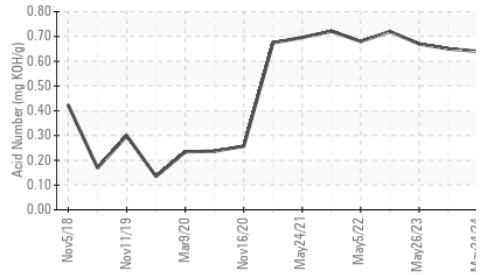
## Water (KF)



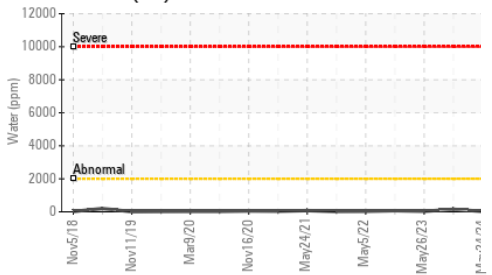
## Non-ferrous Metals



## Acid Number



## Water (KF)

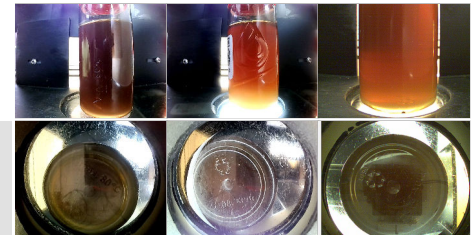


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	460.3	454	455

SAMPLE IMAGES	method	limit/base	current	history1	history2
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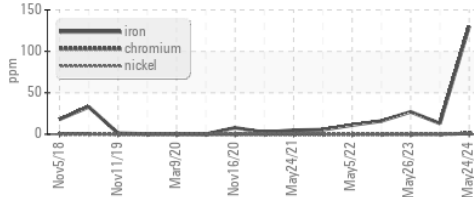
Color



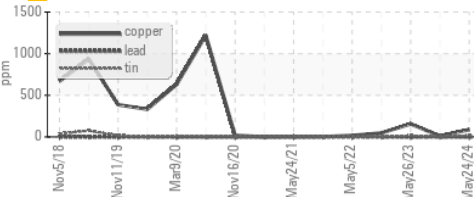
Bottom

## GRAPHS

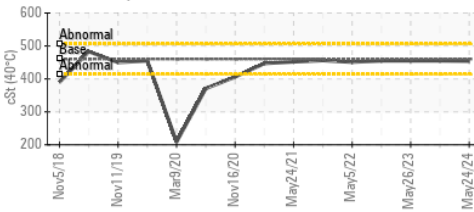
### Ferrous Alloys



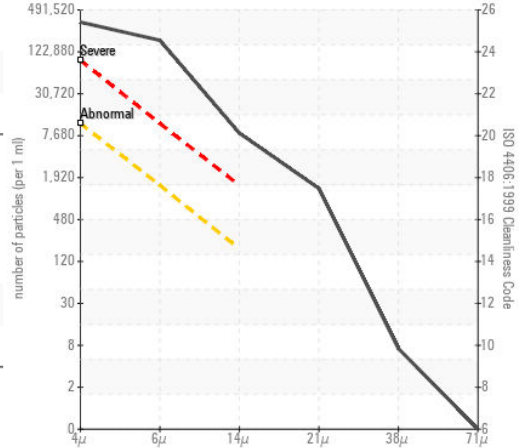
### Non-ferrous Metals



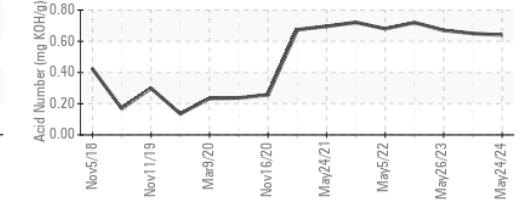
### Viscosity @ 40°C



### Particle Count



### Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0941387

Lab Number : 06195449

Unique Number : 11057572

Test Package : PLANT

Received : 30 May 2024

Tested : 31 May 2024

Diagnosed : 31 May 2024 - Angela Borella

AJINOMOTO ANIMAL NUTRITION NORTH AMERICA, INC.

1116 HWY 137

EDDYVILLE, IA

US 52553

Contact: Alan Brittain

brittaina@ajiuusa.com

T: (641)295-0086

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)