

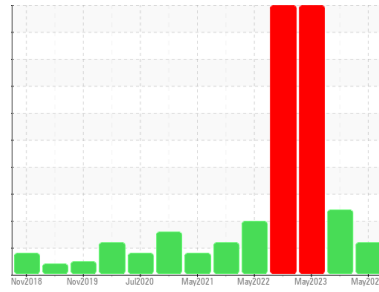


# OIL ANALYSIS REPORT

Area  
**Mameno**  
 Machine Id  
**A5001D**  
 Component  
**Gearbox**

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

Sample Rating Trend



## CONTAMINANT



### 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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0904778</b>	WC0850025	WC0804706
Sample Date	Client Info		<b>24 May 2024</b>	30 Nov 2023	26 May 2023
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	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	SEVERE

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>50</b>	17	▲ 2066
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	11
Nickel	ppm	ASTM D5185m >10	<b>4</b>	0	11
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	2
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	<1	8
Lead	ppm	ASTM D5185m >50	<b>1</b>	0	43
Copper	ppm	ASTM D5185m >200	<b>6</b>	12	▲ 10334
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	4	▲ 2175
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	2
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	19
Magnesium	ppm	ASTM D5185m	<b>1</b>	2	17
Calcium	ppm	ASTM D5185m	<b>4</b>	1	6
Phosphorus	ppm	ASTM D5185m	<b>101</b>	175	419
Zinc	ppm	ASTM D5185m	<b>20</b>	0	32
Sulfur	ppm	ASTM D5185m	<b>27955</b>	21042	27113

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>1</b>	6	▲ 265
Sodium	ppm	ASTM D5185m	<b>8</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	2
Water	%	ASTM D6304 >0.2	<b>0.001</b>	0.010	0.032
ppm Water	ppm	ASTM D6304 >2000	<b>7</b>	103	323.3

### FLUID CLEANLINESS

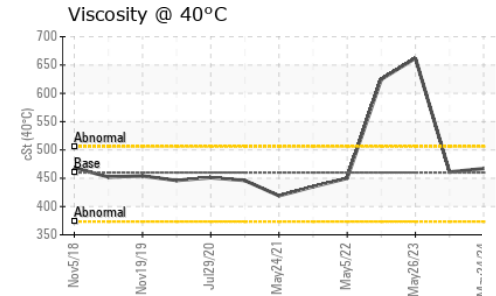
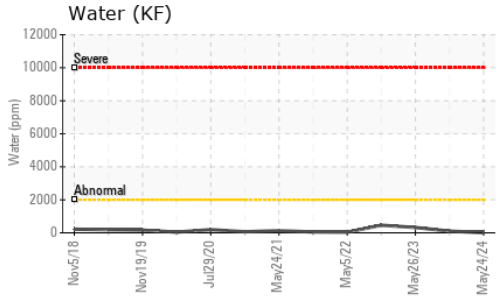
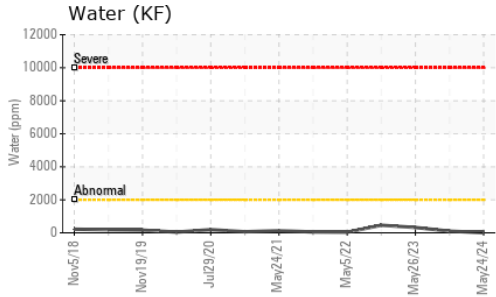
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	---	▲ 335529	---
Particles >6µm	ASTM D7647	>1300	---	▲ 245982	---
Particles >14µm	ASTM D7647	>160	---	▲ 30891	---
Particles >21µm	ASTM D7647	>40	---	▲ 3843	---
Particles >38µm	ASTM D7647	>10	---	▲ 22	---
Particles >71µm	ASTM D7647	>3	---	0	---
Oil Cleanliness	ISO 4406 (c)	>20/17/14	---	▲ 26/25/22	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.19	<b>0.47</b>	0.78	1.20



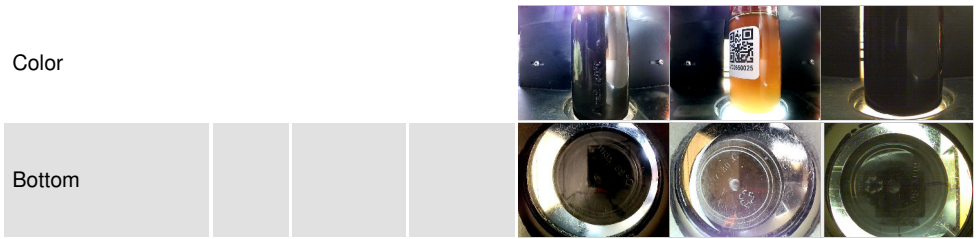
# OIL ANALYSIS REPORT



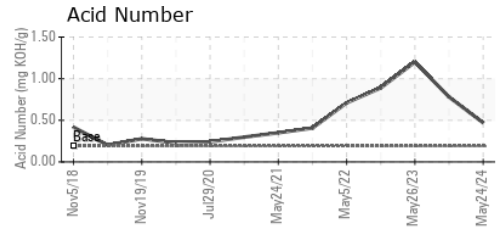
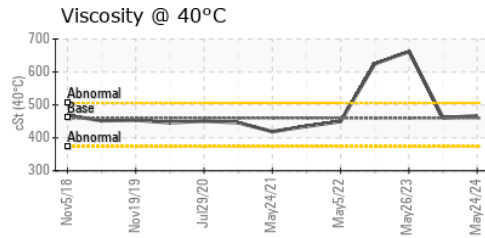
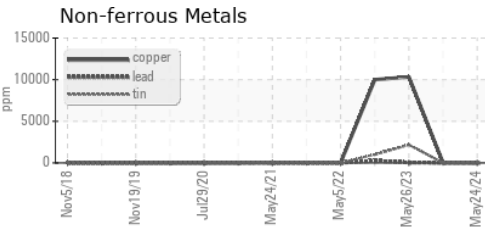
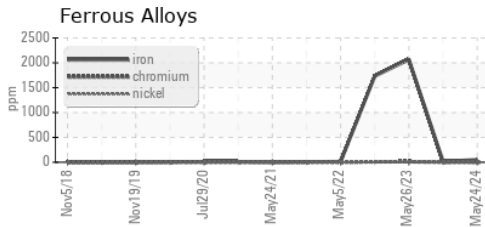
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ HEAVY
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	● HAZY	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	467	461	▲ 662

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0904778  
**Lab Number** : 06195448  
**Unique Number** : 11057571  
**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

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)