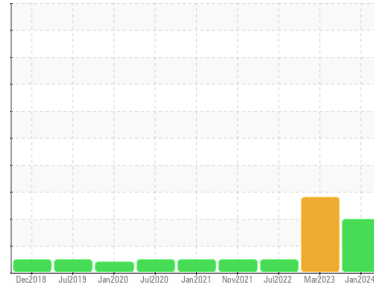




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**South Plant-Purification**  
 Machine Id  
**B3195A**

Component  
**Bearing Lube**  
 Fluid

**HIGH PERFORMANCE LUBRICANTS TURBINE LIFE 46 (14 GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### ▲ Wear

Bearing and/or bushing wear is indicated.

### ▲ Contamination

There is a moderate 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>WC0870640</b>	WC0786754	WC0686380
Sample Date	Client Info		<b>10 Jan 2024</b>	29 Mar 2023	06 Jul 2022
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	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>13</b>	6	1
Chromium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >2	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m >25	<b>2</b>	▲ 14	<1
Copper	ppm	ASTM D5185m >7	▲ <b>40</b>	▲ 16	1
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>5</b>	8	62
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	0	2
Phosphorus	ppm	ASTM D5185m	<b>278</b>	284	6
Zinc	ppm	ASTM D5185m	<b>28</b>	36	7
Sulfur	ppm	ASTM D5185m	<b>19515</b>	21212	21696

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>3</b>	4	2
Sodium	ppm	ASTM D5185m	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304 >0.1	<b>0.002</b>	0.003	0.005
ppm Water	ppm	ASTM D6304 >1000	<b>24</b>	30.3	55.8

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	▲ <b>1150</b>	▲ 670	404
Particles >6µm	ASTM D7647	>160	▲ <b>192</b>	▲ 200	86
Particles >14µm	ASTM D7647	>40	<b>32</b>	38	12
Particles >21µm	ASTM D7647	>10	<b>15</b>	12	3
Particles >38µm	ASTM D7647	>3	<b>2</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>16/14/12	▲ <b>17/15/12</b>	▲ 17/15/12	16/14/11

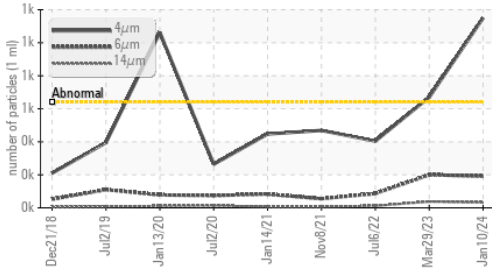
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.19	<b>1.00</b>	0.87	0.86

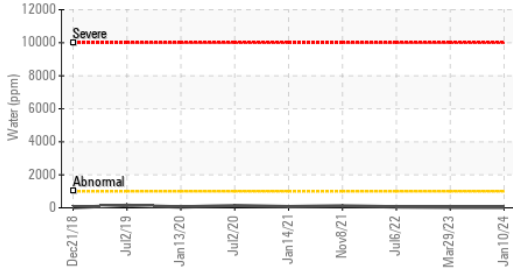


# OIL ANALYSIS REPORT

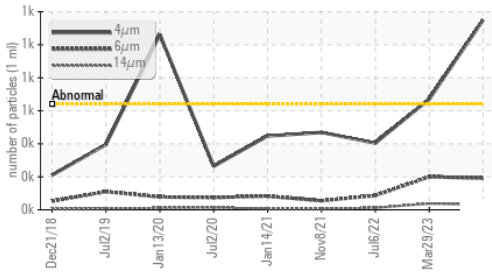
### ▲ Particle Trend



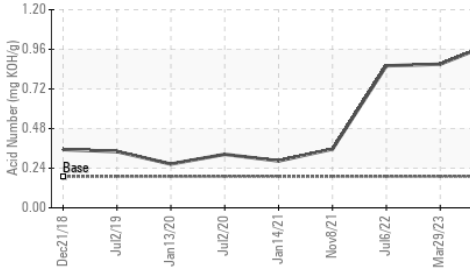
### Water (KF)



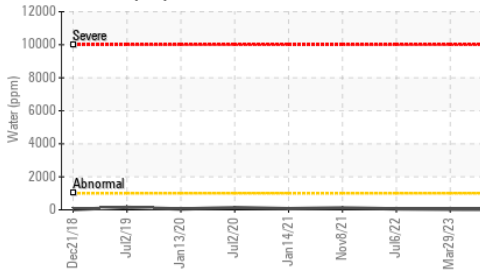
### ▲ Particle Trend



### Acid Number



### Water (KF)

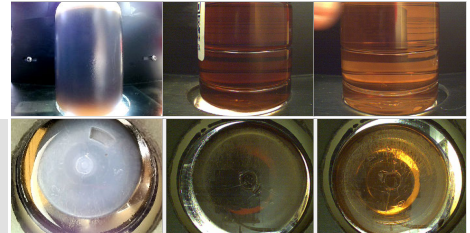


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	<b>46.8</b>	46.1	46.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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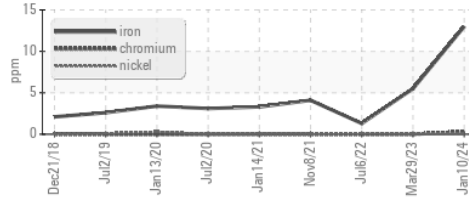
Color



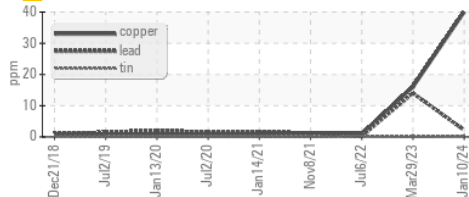
Bottom

### GRAPHS

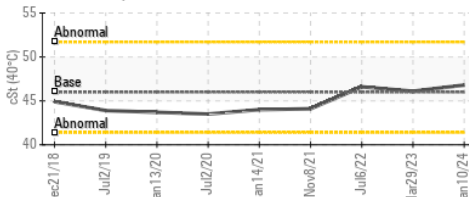
#### Ferrous Alloys



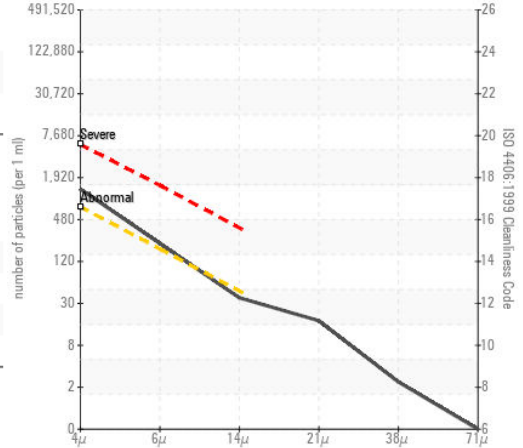
#### ▲ Non-ferrous Metals



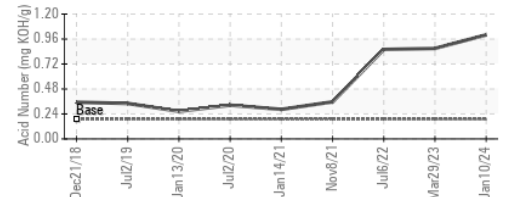
#### Viscosity @ 40°C



#### ▲ Particle Count



#### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0870640 **Received** : 16 Jan 2024  
**Lab Number** : **06061934** **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833316 **Diagnostician** : Don Baldrige  
**Test Package** : PLANT

**AJINOMOTO ANIMAL NUTRITION NORTH AMERICA, INC.**  
 1116 HWY 137  
 EDDYVILLE, IA  
 US 52553  
 Contact: Alan Brittain  
 brittaina@ajiusa.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)