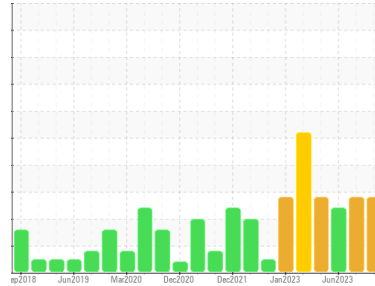




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**Aji-Tein**  
 Machine Id  
**CS-3501C**

Component  
**Lube System**  
 Fluid  
**HIGH PERFORMANCE LUBRICANTS TURBINE LIFE 46 (14 GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

The iron level is abnormal. All other component wear rates are normal.

### 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>WC0870650</b>	WC0804738	WC0804734
Sample Date	Client Info		<b>10 Jan 2024</b>	14 Sep 2023	23 Jun 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>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>▲ 106</b>	▲ 85	▲ 55
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>2</b>	0	0
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >75	<b>21</b>	11	5
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>3</b>	5	8
Calcium	ppm	ASTM D5185m	<b>2</b>	4	3
Phosphorus	ppm	ASTM D5185m	<b>220</b>	214	211
Zinc	ppm	ASTM D5185m	<b>50</b>	37	29
Sulfur	ppm	ASTM D5185m	<b>18714</b>	20883	20981

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	9	8
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	2
Water	%	ASTM D6304 >0.1	<b>0.003</b>	0.004	0.004
ppm Water	ppm	ASTM D6304 >1000	<b>38</b>	45.8	45.4

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	<b>▲ 2520</b>	▲ 862	▲ 3329
Particles >6µm	ASTM D7647	>160	<b>▲ 865</b>	▲ 335	▲ 1118
Particles >14µm	ASTM D7647	>40	<b>▲ 65</b>	▲ 41	▲ 70
Particles >21µm	ASTM D7647	>10	<b>▲ 17</b>	▲ 11	11
Particles >38µm	ASTM D7647	>3	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>16/14/12	<b>▲ 19/17/13</b>	▲ 17/16/13	▲ 19/17/13

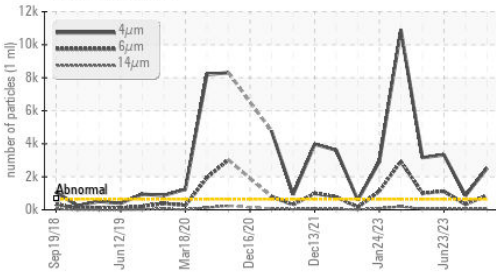
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.19	<b>0.51</b>	0.49	0.52

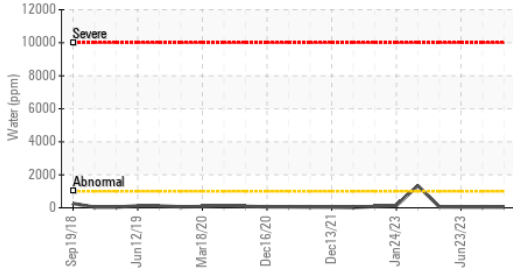


# OIL ANALYSIS REPORT

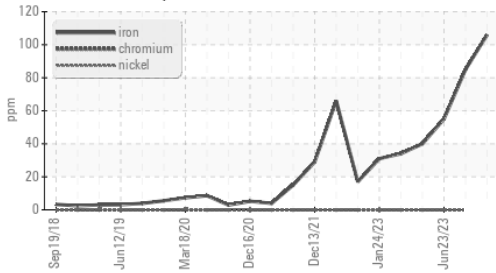
## ▲ Particle Trend



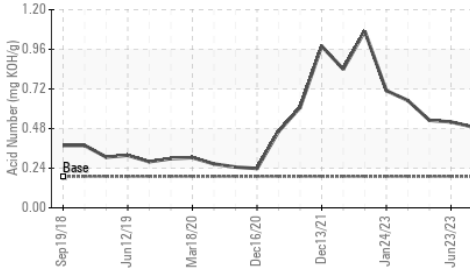
## Water (KF)



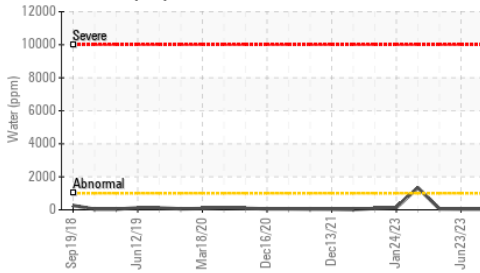
## ▲ Ferrous Alloys



## 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	49.4	48.0	48.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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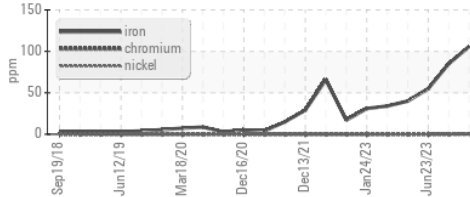
Color



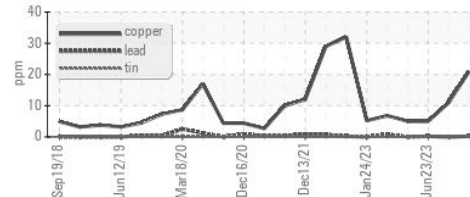
Bottom

## GRAPHS

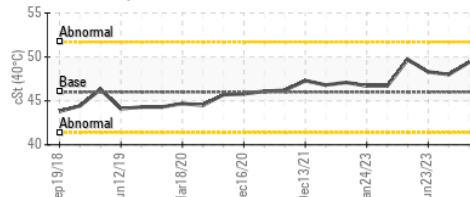
### ▲ Ferrous Alloys



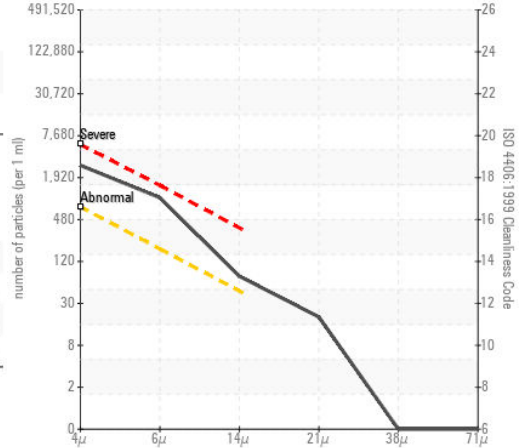
### Non-ferrous Metals



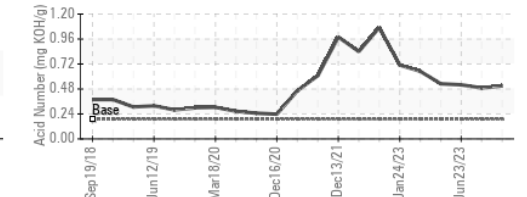
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0870650  
 Lab Number : 06061932  
 Unique Number : 10833314  
 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:

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)