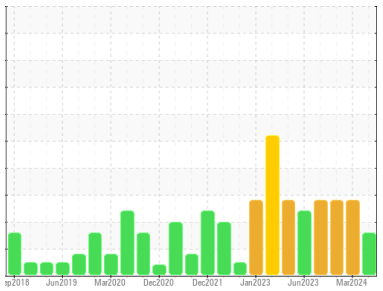
OIL ANALYSIS REPORT

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
No corrective action is recommended at this time. 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 moderate amount of silt (particulates < 14 microns in size) 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		**WC0941377**	WC0850057	WC0870650
Sample Date		Client Info		**13 Jun 2024**	12 Mar 2024	10 Jan 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **79**	▲ 76	▲ 106
Chromium	ppm	ASTM D5185m	>10	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**0**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	2
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>75	**17**	16	21
Tin	ppm	ASTM D5185m	>10	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m		**<1**	2	3
Calcium	ppm	ASTM D5185m		**0**	<1	2
Phosphorus	ppm	ASTM D5185m		**215**	230	220
Zinc	ppm	ASTM D5185m		**84**	73	50
Sulfur	ppm	ASTM D5185m		**20805**	24091	18714

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**<1**	0	0
Sodium	ppm	ASTM D5185m		**4**	5	<1
Potassium	ppm	ASTM D5185m	>20	**<1**	1	2
Water	%	ASTM D6304	>0.1	**0.005**	0.001	0.003
ppm Water	ppm	ASTM D6304	>1000	**52**	2	38

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	**394**	▲ 2165	▲ 2520
Particles >6µm		ASTM D7647	>160	● **166**	▲ 724	▲ 865
Particles >14µm		ASTM D7647	>40	**16**	▲ 69	▲ 65
Particles >21µm		ASTM D7647	>10	**4**	▲ 14	▲ 17
Particles >38µm		ASTM D7647	>3	**0**	1	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>16/14/12	● **16/15/11**	▲ 18/17/13	▲ 19/17/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.19	**0.56**	0.64	0.51

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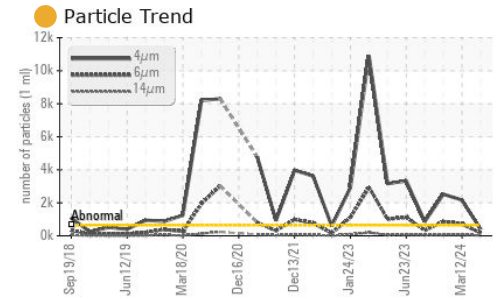
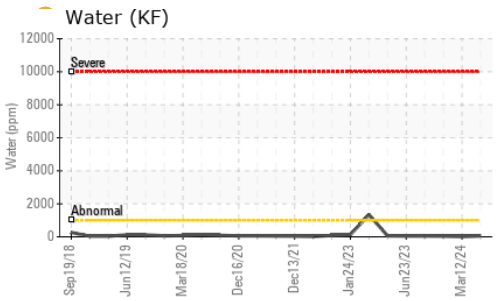
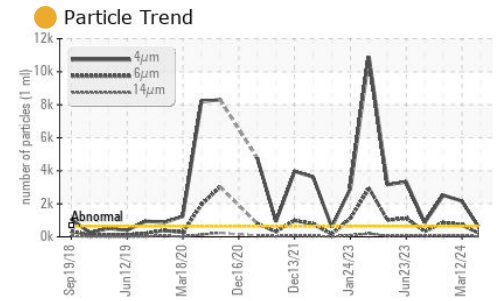
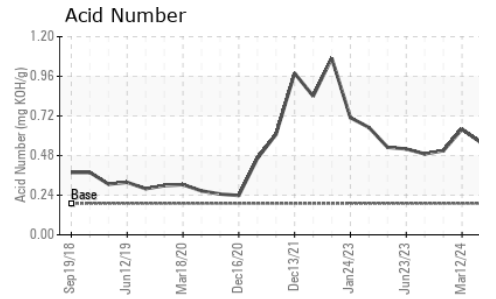
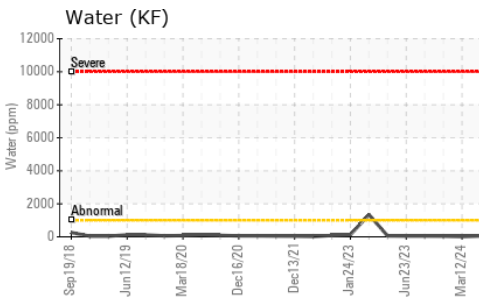








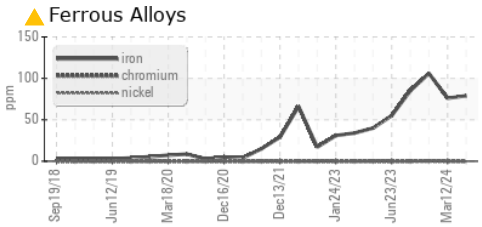


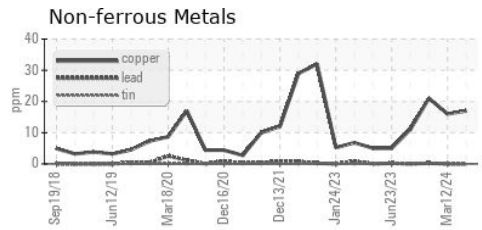
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

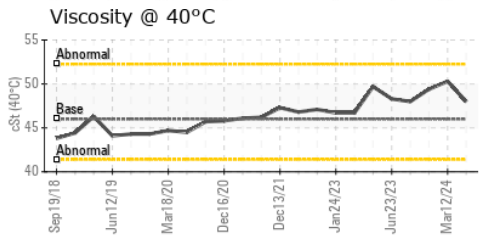
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**48.0**	50.3	49.4

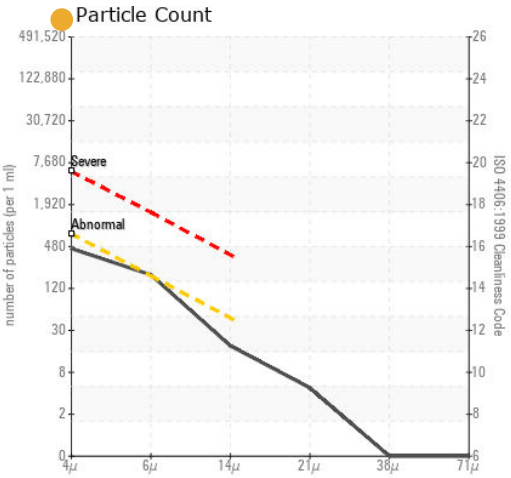
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

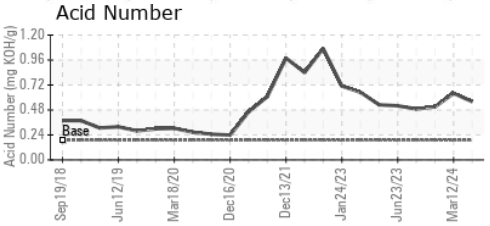
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0941377
Lab Number : 06212340
Unique Number : 11085204
Test Package : PLANT

Received : 17 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 2024 - Don Baldridge

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)

AJINOMOTO ANIMAL NUTRITION NORTH AMERICA, INC.
1116 HWY 137
EDDYVILLE, IA
US 52553
Contact: Alan Brittain
brittaina@ajiusa.com
T: (641)295-0086
F: