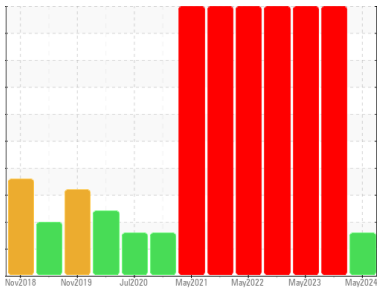
OIL ANALYSIS REPORT

Area
Mameno
Machine Id
A5001A
Component
Gearbox
Fluid
HIGH PERFORMANCE LUBRICANTS TURBINE LIFE 460 (4 GAL)

Sample Rating Trend



VISCOSITY

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition
Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0904779**	WC0850026	WC0804691
Sample Date		Client Info		**24 May 2024**	30 Nov 2023	26 May 2023
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**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**<1**	▲ 296	▲ 279
Chromium	ppm	ASTM D5185m	>10	**<1**	2	1
Nickel	ppm	ASTM D5185m	>10	**<1**	5	5
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	1	2
Lead	ppm	ASTM D5185m	>50	**<1**	0	<1
Copper	ppm	ASTM D5185m	>200	**8**	▲ 5220	▲ 4660
Tin	ppm	ASTM D5185m	>10	**<1**	▲ 556	▲ 530
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

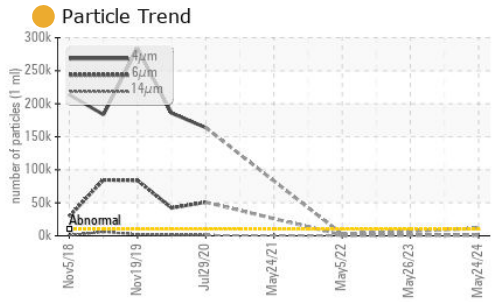
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**2**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	<1
Manganese	ppm	ASTM D5185m		**0**	3	3
Magnesium	ppm	ASTM D5185m		**32**	77	67
Calcium	ppm	ASTM D5185m		**<1**	104	100
Phosphorus	ppm	ASTM D5185m		**5**	284	295
Zinc	ppm	ASTM D5185m		**17**	15	22
Sulfur	ppm	ASTM D5185m		**20630**	40880	35333

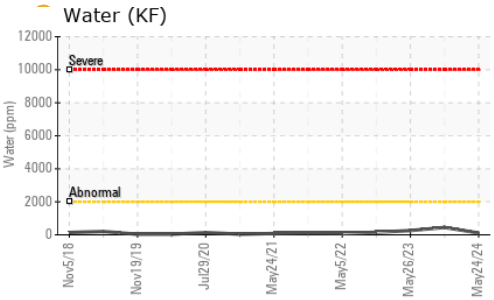
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**<1**	13	13
Sodium	ppm	ASTM D5185m		**13**	7	6
Potassium	ppm	ASTM D5185m	>20	**4**	0	1
Water	%	ASTM D6304	>0.2	**0.011**	0.044	0.025
ppm Water	ppm	ASTM D6304	>2000	**111**	448	258.4

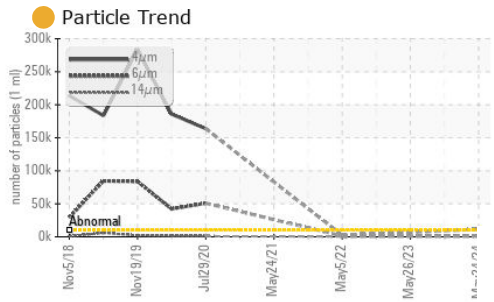
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	● **11473**	---	---
Particles >6µm		ASTM D7647	>1300	● **1563**	---	---
Particles >14µm		ASTM D7647	>160	**57**	---	---
Particles >21µm		ASTM D7647	>40	**13**	---	---
Particles >38µm		ASTM D7647	>10	**0**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/17/14	● **21/18/13**	---	---

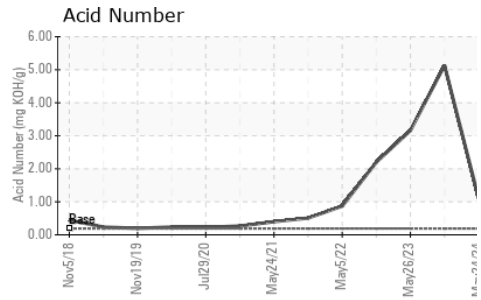
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.19	**1.11**	▲ 5.13	▲ 3.16

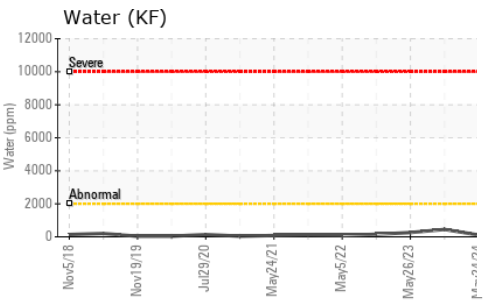
OIL ANALYSIS REPORT





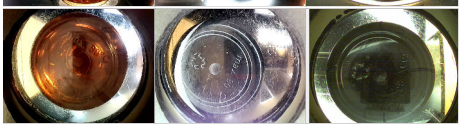




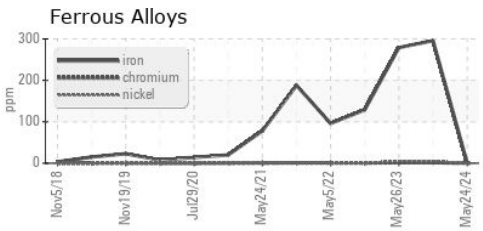


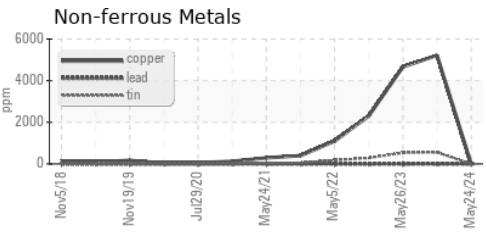
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	▲ HEAVY	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	▲ HEAVY
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
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	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

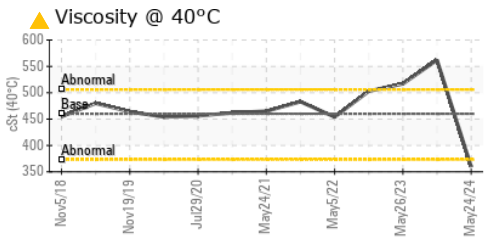
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	▲ **360**	▲ 562	517

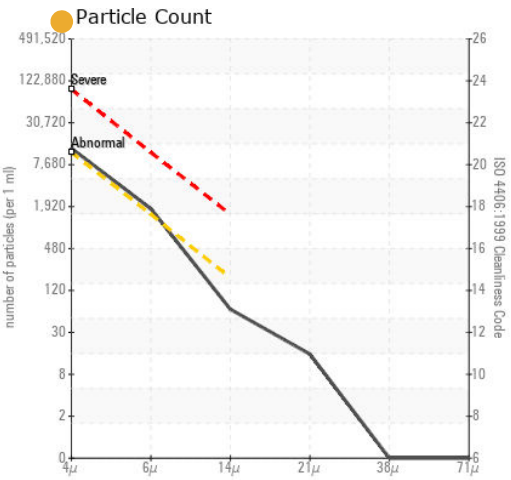
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

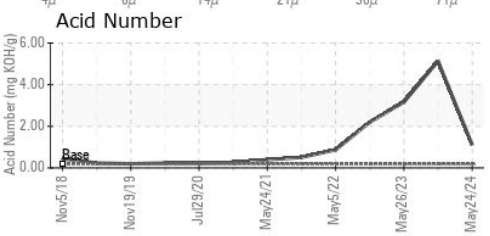
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0904779
Lab Number : 06195445
Unique Number : 11057568
Test Package : PLANT

Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Angela Borella

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)

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