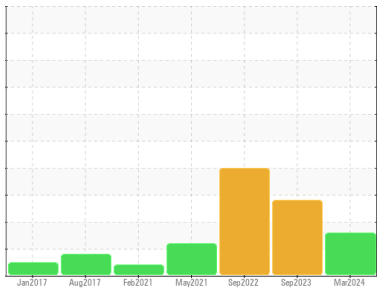
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
ENERGY
Machine Id
2030 RV01
Component
Gearbox
Fluid
SUMMIT Syngear SH-1022 220 (--- LTR)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. 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
Gear wear is indicated.

Contamination
There is a moderate amount of visible silt present in the sample.

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		**WC0842383**	WC0806885	WC0635758
Sample Date		Client Info		**08 Mar 2024**	09 Sep 2023	01 Sep 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**135**	94	---
Iron	ppm	ASTM D5185m	>200	▲ **275**	▲ 244	123
Chromium	ppm	ASTM D5185m	>15	**13**	11	9
Nickel	ppm	ASTM D5185m	>15	**6**	5	4
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	3	2
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**7**	6	3
Tin	ppm	ASTM D5185m	>25	**<1**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**72**	49	84
Barium	ppm	ASTM D5185m		**<1**	<1	2
Molybdenum	ppm	ASTM D5185m		**0**	<1	<1
Manganese	ppm	ASTM D5185m		**4**	3	2
Magnesium	ppm	ASTM D5185m		**7**	7	4
Calcium	ppm	ASTM D5185m		**4**	4	3
Phosphorus	ppm	ASTM D5185m		**556**	494	487
Zinc	ppm	ASTM D5185m		**33**	26	13
Sulfur	ppm	ASTM D5185m		**11160**	9584	10938

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**25**	23	11
Sodium	ppm	ASTM D5185m		**5**	3	3
Potassium	ppm	ASTM D5185m	>20	**3**	1	0
Water	%	ASTM D6304	>0.2	**0.015**	0.024	---
ppm Water	ppm	ASTM D6304	>2000	**150**	240.4	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**---**	▲ 214252	▲ 228061
Particles >6µm		ASTM D7647	>5000	**---**	▲ 141567	▲ 148476
Particles >14µm		ASTM D7647	>640	**---**	▲ 3399	▲ 4206
Particles >21µm		ASTM D7647	>160	**---**	▲ 165	114
Particles >38µm		ASTM D7647	>40	**---**	0	3
Particles >71µm		ASTM D7647	>10	**---**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**---**	▲ 25/24/19	▲ 25/24/19

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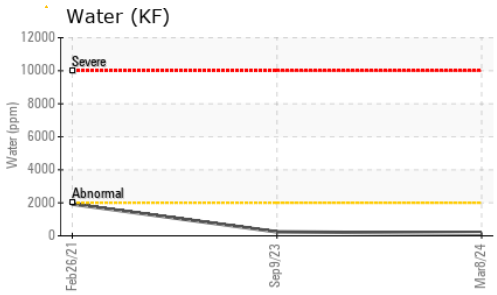
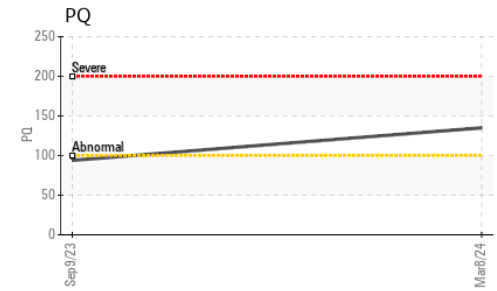
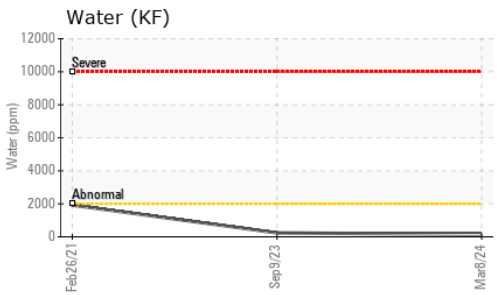
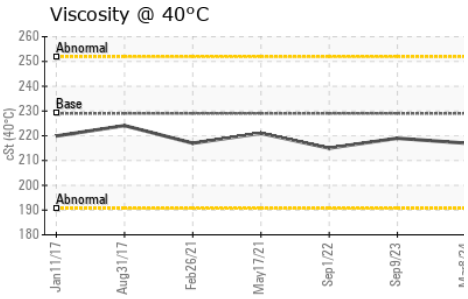
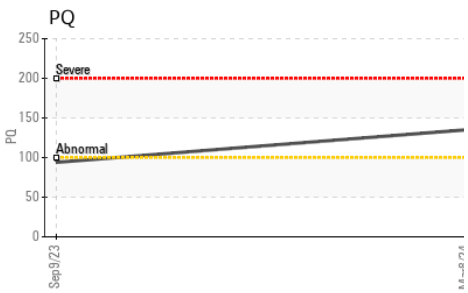






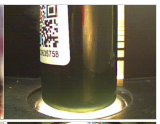
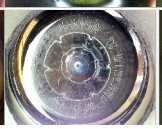
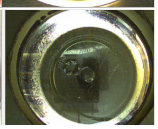




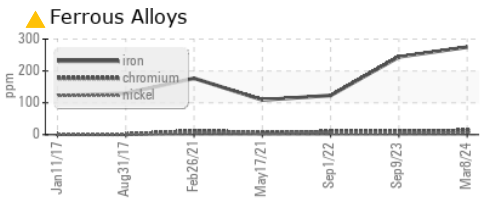
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.62**	0.75	0.71

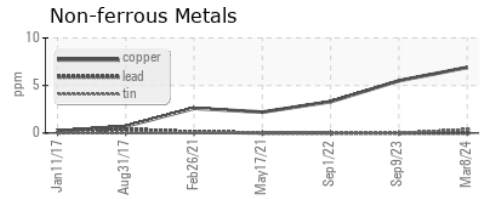
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

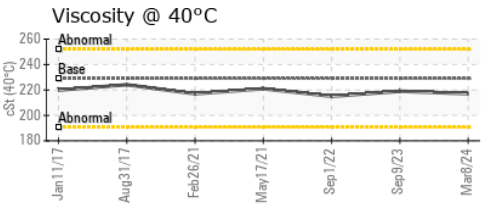
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	229	**217**	219	215

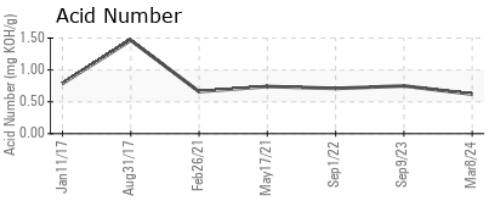
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0842383
Lab Number : 06218240
Unique Number : 11096437
Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount)

Received : 24 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Jonathan Hester

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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