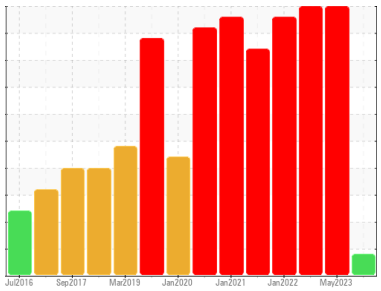
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
MELT SHOP BAG HOUSE (EAF151)
Machine Id
M/S BAG HOUSE (EAF151) - Chain Conveyor Crosstransport (EAF 151) (S/N 15-6400-2000-2030)
Component
Gearbox
Fluid
GEAR OIL ISO 220 (--- QTS)

DIAGNOSIS

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

Wear
Gear wear is indicated.

Contamination
The water content is negligible. There is no indication of any contamination 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		**RP0044102**	RP0034571	RP0029723
Sample Date		Client Info		**24 Jun 2024**	11 May 2023	01 Sep 2022
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

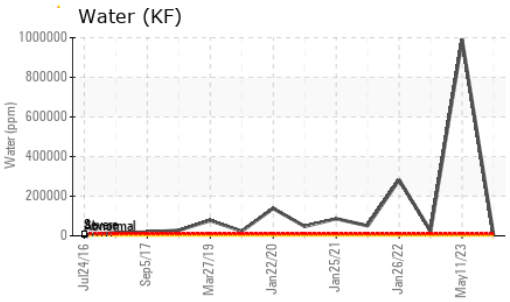
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**22**	▲ 13895	58
Iron	ppm	ASTM D5185m	>200	▲ **320**	▲ 1522	▲ 864
Chromium	ppm	ASTM D5185m	>15	**2**	▲ 16	● 12
Nickel	ppm	ASTM D5185m	>15	**<1**	1	3
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**2**	4	3
Lead	ppm	ASTM D5185m	>100	**0**	2	<1
Copper	ppm	ASTM D5185m	>200	**<1**	<1	2
Tin	ppm	ASTM D5185m	>25	**0**	10	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	<1

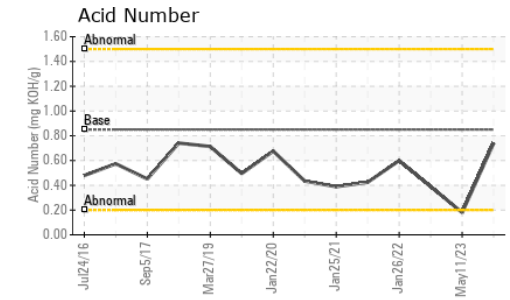
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**6**	13	12
Barium	ppm	ASTM D5185m	15	**0**	0	1
Molybdenum	ppm	ASTM D5185m	15	**210**	<1	1
Manganese	ppm	ASTM D5185m		**3**	13	5
Magnesium	ppm	ASTM D5185m	50	**<1**	0	10
Calcium	ppm	ASTM D5185m	50	**<1**	13	155
Phosphorus	ppm	ASTM D5185m	350	**493**	70	341
Zinc	ppm	ASTM D5185m	100	**19**	0	36

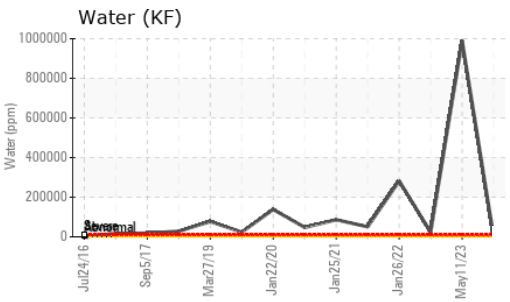
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**4**	4	7
Sodium	ppm	ASTM D5185m		**6**	0	0
Potassium	ppm	ASTM D5185m	>20	**2**	3	1
Water	%	ASTM D6304	>0.2	**0.014**	▲ 99.0	▲ 2.33
ppm Water	ppm	ASTM D6304	>2000	**143**	▲ 990000	▲ 23300

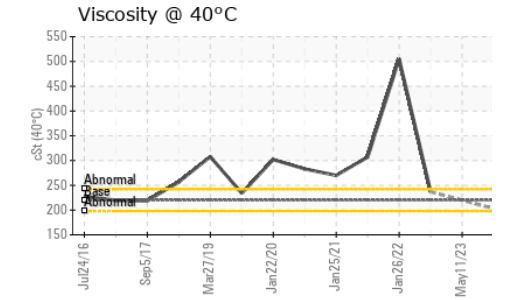
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	**0.74**	0.18	0.39

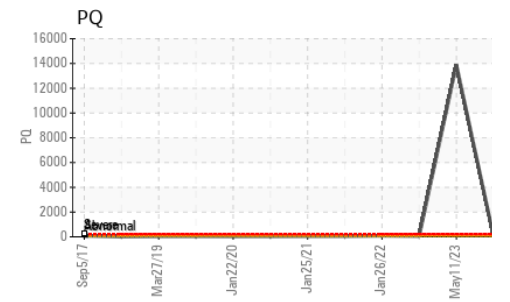
OIL ANALYSIS REPORT





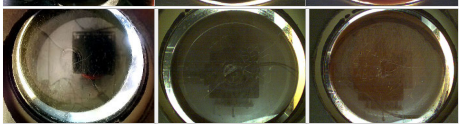




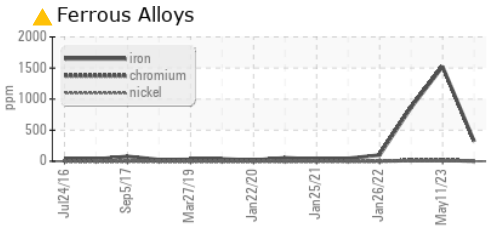


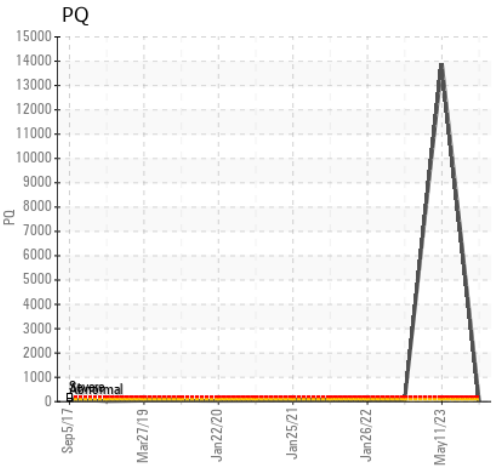
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	MILKY	MILKY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual		**NEG**	NEG	▲ 1.0

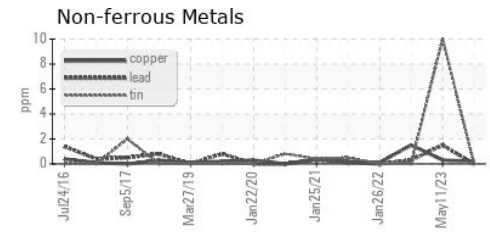
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	**203**	---	237

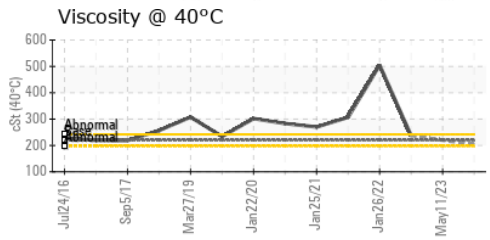
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

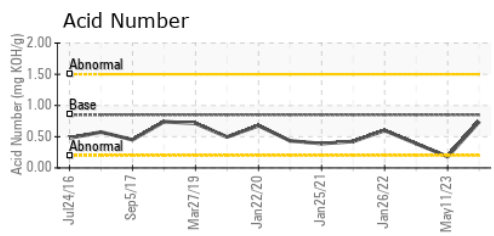
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0044102
Lab Number : 06219784
Unique Number : 11097981
Test Package : IND 2 (Additional Tests: PQ)

Received : 25 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 27 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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Report Id: OUTCALAL [WUSCAR] 06219784 (Generated: 06/27/2024 11:24:32) Rev: 1

Submitted By: DALE ROBINSON