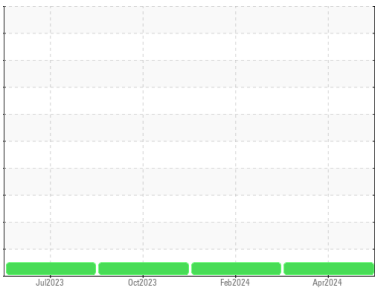
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
Preparation-Prep EB MILL
MachineId
[Preparation-Prep EB MILL] 360014008 - EB MILL MAIN GEARBOX
Component
Main Gearbox
Fluid
SHELL OMALA S2 GX 320 (343 Kg)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
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		**TLC0001776**	TLC0001358	TLC0001115
Sample Date		Client Info		**11 Apr 2024**	01 Feb 2024	30 Oct 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				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

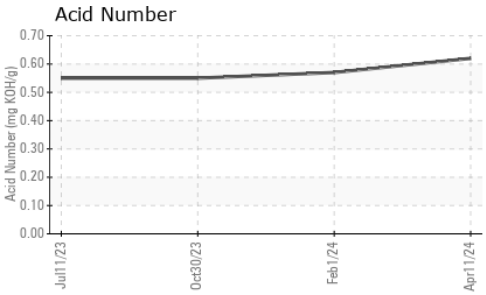
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**36**	26	26
Iron	ppm	ASTM D5185m	>200	**25**	23	30
Chromium	ppm	ASTM D5185m	>15	**0**	0	<1
Nickel	ppm	ASTM D5185m	>15	**<1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	0	2
Lead	ppm	ASTM D5185m	>100	**0**	1	<1
Copper	ppm	ASTM D5185m	>200	**1**	<1	1
Tin	ppm	ASTM D5185m	>25	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

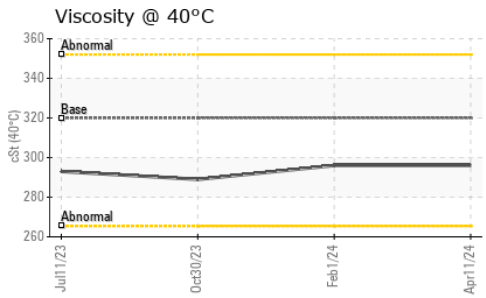
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6.2	**0**	1	<1
Barium	ppm	ASTM D5185m	0.0	**0**	0	19
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**1**	1	0
Magnesium	ppm	ASTM D5185m	0	**2**	0	1
Calcium	ppm	ASTM D5185m	0.0	**5**	0	4
Phosphorus	ppm	ASTM D5185m	290	**269**	211	308
Zinc	ppm	ASTM D5185m	3.8	**11**	0	24
Sulfur	ppm	ASTM D5185m	8167	**15397**	12319	13537

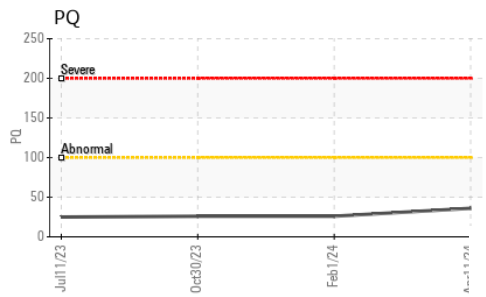
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**17**	15	19
Sodium	ppm	ASTM D5185m		**3**	<1	0
Potassium	ppm	ASTM D5185m	>20	**3**	<1	<1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.62**	0.57	0.55

OIL ANALYSIS REPORT

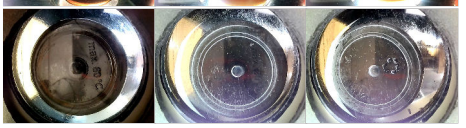




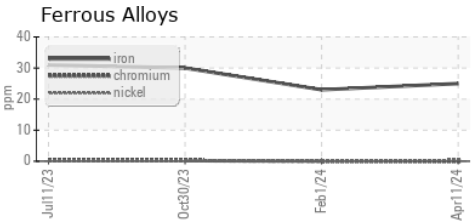


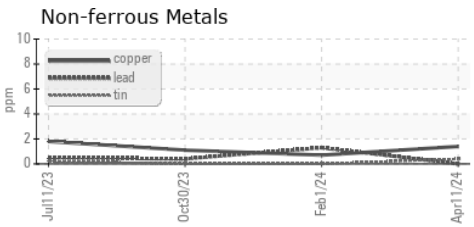
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

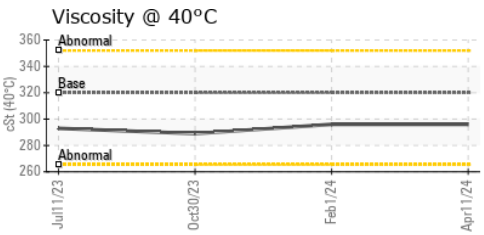
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	**296**	296	289

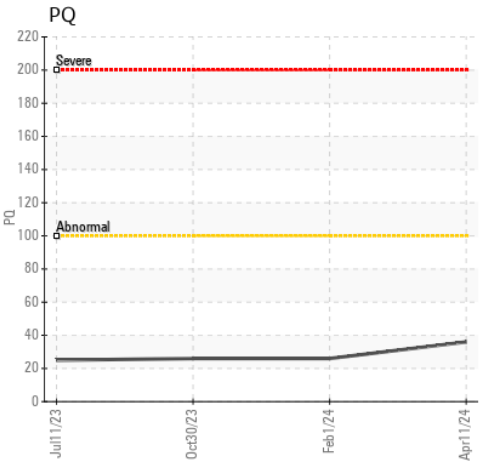
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

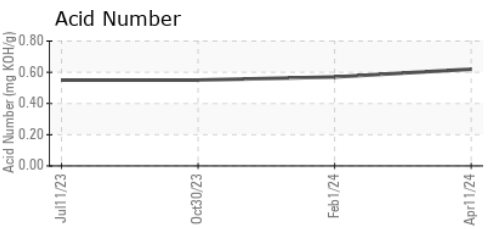
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLC0001776
Lab Number : 06152631
Unique Number : 10982709
Test Package : PLANT

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 18 Apr 2024 - Wes Davis

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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Report Id: MICAND [WUSCAR] 06152631 (Generated: 04/18/2024 17:44:26) Rev: 1

Submitted By: DUSTY LOLLIS