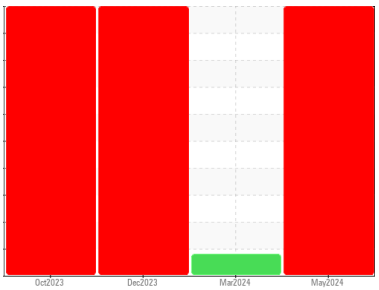
PROBLEM SUMMARY

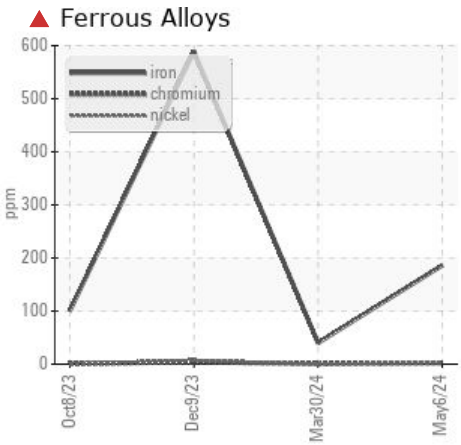
Sample Rating Trend

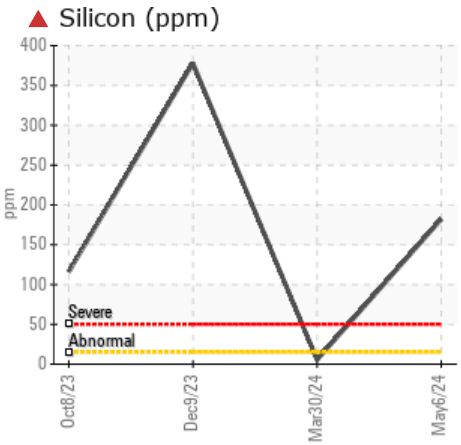


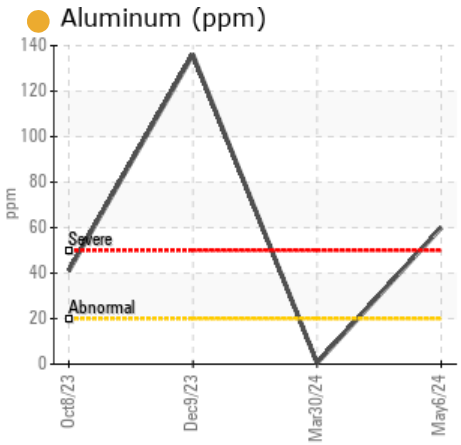
WEAR

Area
Building 12
Machine Id
Roll Crusher 3
Component
Northeast Bearing
Fluid
MOBIL MOBILGEAR 600 XP ISO 68 (3 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>20	▲ **186**	▲ 40	▲ 589
Silicon	ppm	ASTM D5185m	>15	▲ **182**	6	▲ 378
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ MODER

Customer Id: THRPIT
Sample No.: WC0936867
Lab Number: 06177801
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

WEAR

30 Mar 2024 Diag: Don Baldridge
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.The iron level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

WEAR

09 Dec 2023 Diag: Angela Borella
We advise that you check all areas where dirt can enter the system. Check seals and/or filters for points of contaminant entry. Please confirm the lubricant listed in this report is the correct lubricant for replenishment of this system and is suggested by the OEM or overhaul facility. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor.The iron level is severe. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

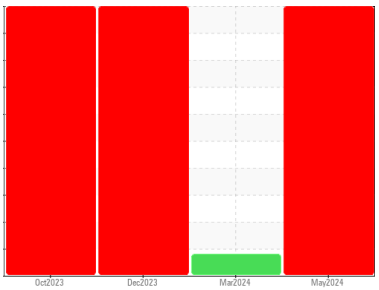
WEAR

08 Oct 2023 Diag: Don Baldridge
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
Building 12
Machine Id
Roll Crusher 3
Component
Northeast Bearing
Fluid
MOBIL MOBILGEAR 600 XP ISO 68 (3 GAL)

DIAGNOSIS

▲ Recommendation
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

▲ Wear
Gear wear is indicated. Moderate concentration of visible metal present.

▲ Contamination
There is a moderate amount of visible silt present in the sample. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0936867**	WC0901939	WC0882549
Sample Date		Client Info		**06 May 2024**	30 Mar 2024	09 Dec 2023
Machine Age	hrs	Client Info		**2170**	2170	2170
Oil Age	hrs	Client Info		**2170**	2170	224
Oil Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**SEVERE**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>2	**NEG**	NEG	NEG

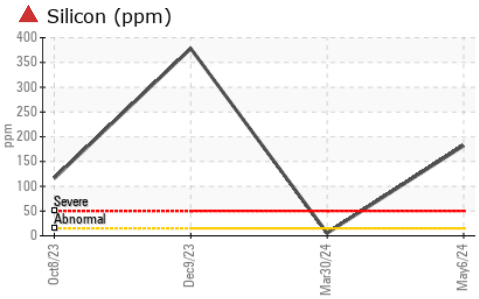
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **186**	▲ 40	▲ 589
Chromium	ppm	ASTM D5185m	>20	**2**	0	4
Nickel	ppm	ASTM D5185m	>20	**4**	0	8
Titanium	ppm	ASTM D5185m		**5**	0	8
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	● **60**	<1	● 136
Lead	ppm	ASTM D5185m	>20	**<1**	0	0
Copper	ppm	ASTM D5185m	>20	**<1**	1	2
Tin	ppm	ASTM D5185m	>20	**<1**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	0

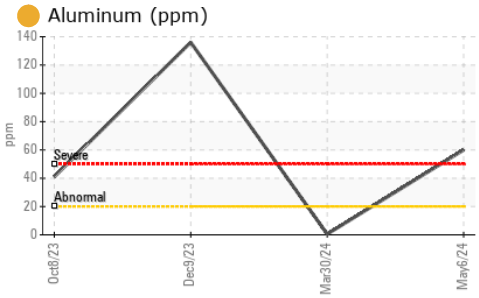
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**26**	33	15
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**2**	<1	7
Magnesium	ppm	ASTM D5185m		**23**	0	51
Calcium	ppm	ASTM D5185m		**32**	<1	84
Phosphorus	ppm	ASTM D5185m		**340**	343	288
Zinc	ppm	ASTM D5185m		**1**	0	0
Sulfur	ppm	ASTM D5185m		**9307**	9282	7277

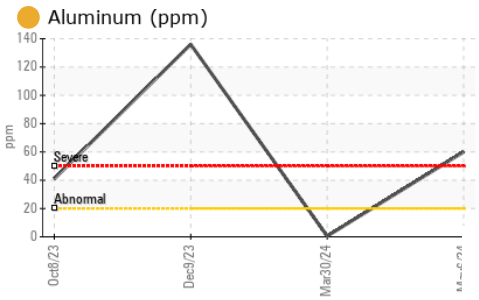
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ **182**	6	▲ 378
Sodium	ppm	ASTM D5185m		**20**	<1	48
Potassium	ppm	ASTM D5185m	>20	**8**	0	11

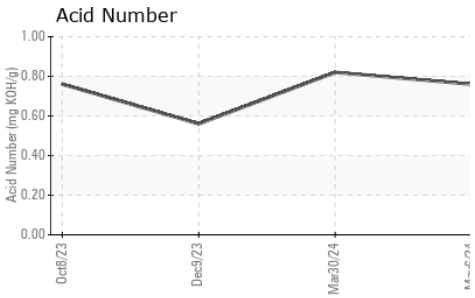
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.76**	0.82	0.56

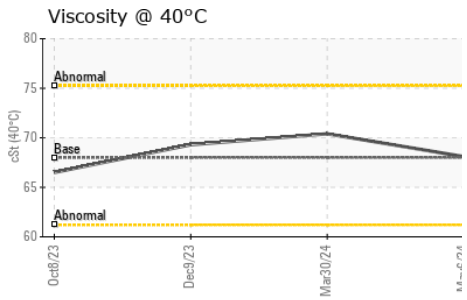
OIL ANALYSIS REPORT









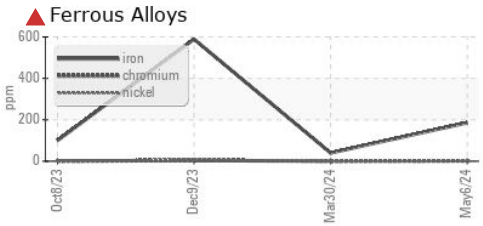


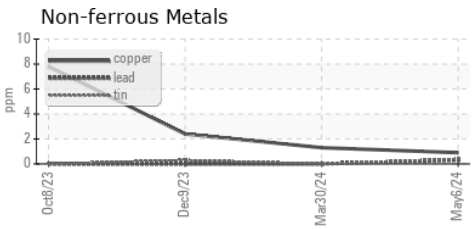
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ MODER
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
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	>2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

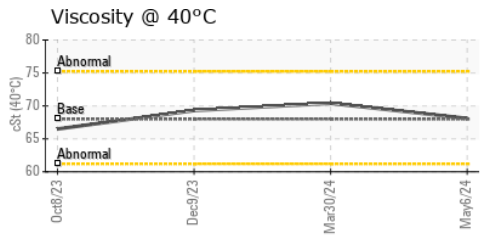
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	**68.1**	70.4	69.3

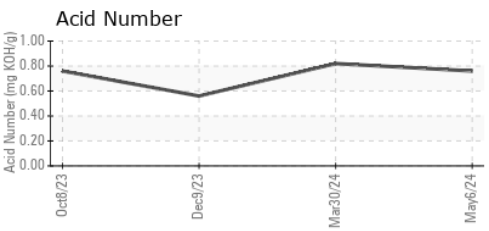
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936867
Lab Number : 06177801
Unique Number : 11029127
Test Package : IND 2

Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 15 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)

3M - PITTSBORO
4191 NC 87 S
MONCURE, NC
US 27559
Contact: CHARLES JARRELL
cjarrell@mmm.com
T:
F:

Report Id: THRPIT [WUSCAR] 06177801 (Generated: 05/15/2024 17:36:01) Rev: 1

Submitted By: JORDAN TUTEN