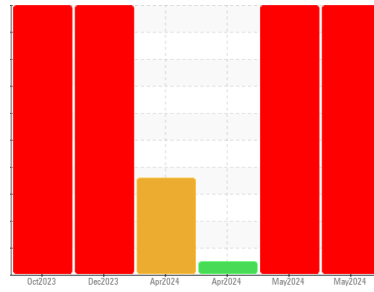




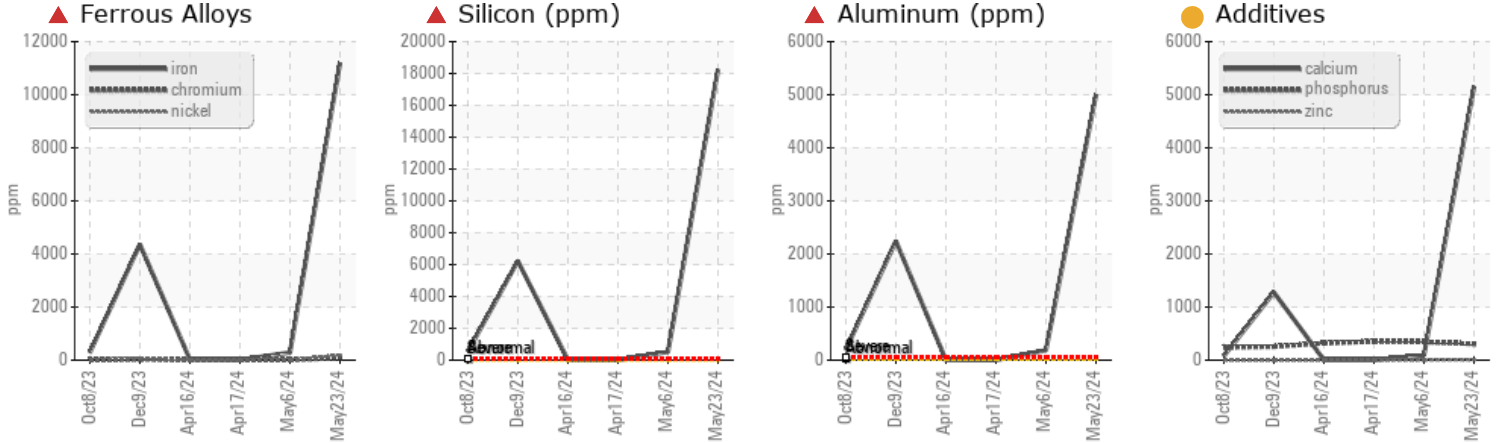
PROBLEM SUMMARY

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

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

LOCKED UP

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>20	▲ 11200	▲ 286	12
Chromium	ppm	ASTM D5185m	>20	▲ 90	1	<1
Nickel	ppm	ASTM D5185m	>20	▲ 189	3	<1
Aluminum	ppm	ASTM D5185m	>20	▲ 5000	● 188	1
Silicon	ppm	ASTM D5185m	>15	▲ 18239	▲ 517	5

Customer Id: THRPIT
 Sample No.: WC0936849
 Lab Number: 06214877
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

WEAR



06 May 2024 Diag: Angela Borella

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. 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. The AN level is acceptable for this fluid.

view report



NORMAL



17 Apr 2024 Diag: Sean Felton

Resample at the next service interval to monitor. All 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



DIRT



16 Apr 2024 Diag: Don Baldrige

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. The iron level has decreased, but is still abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

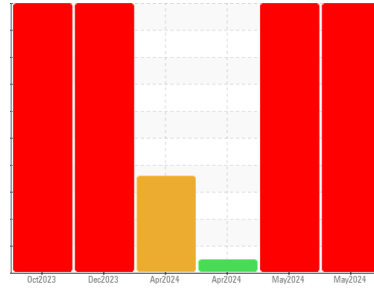
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



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

DIAGNOSIS

▲ Recommendation

LOCKED UP

▲ Wear

The aluminum, chrome, iron and nickel are severe.

▲ Contamination

Severe concentration of dirt present in the oil.

● Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0936849	WC0936868	WC0901942
Sample Date	Client Info		23 May 2024	06 May 2024	17 Apr 2024
Machine Age	hrs	Client Info	2170	2170	2170
Oil Age	hrs	Client Info	2170	2170	2170
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	SEVERE	NORMAL

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	▲ 11200	▲ 286	12
Chromium	ppm	ASTM D5185m >20	▲ 90	1	<1
Nickel	ppm	ASTM D5185m >20	▲ 189	3	<1
Titanium	ppm	ASTM D5185m	516	14	<1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >20	▲ 5000	● 188	1
Lead	ppm	ASTM D5185m >20	5	5	0
Copper	ppm	ASTM D5185m >20	21	20	<1
Tin	ppm	ASTM D5185m >20	4	3	<1
Vanadium	ppm	ASTM D5185m	21	<1	<1
Cadmium	ppm	ASTM D5185m	2	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	20	34	36
Barium	ppm	ASTM D5185m	12	<1	0
Molybdenum	ppm	ASTM D5185m	9	<1	0
Manganese	ppm	ASTM D5185m	● 143	5	0
Magnesium	ppm	ASTM D5185m	● 3229	78	<1
Calcium	ppm	ASTM D5185m	● 5153	91	4
Phosphorus	ppm	ASTM D5185m	306	343	352
Zinc	ppm	ASTM D5185m	7	2	0
Sulfur	ppm	ASTM D5185m	8226	9651	8948

CONTAMINANTS

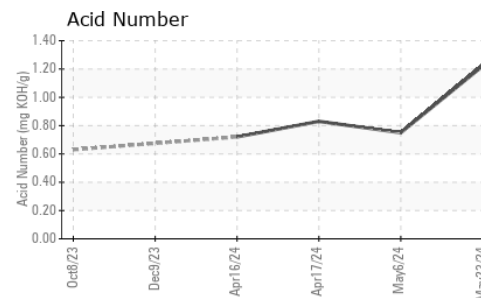
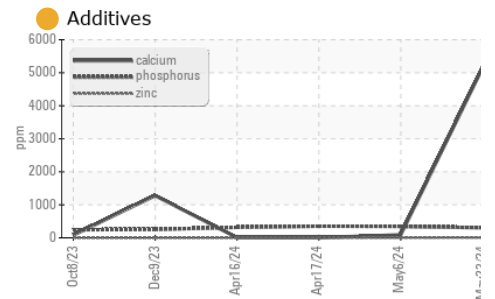
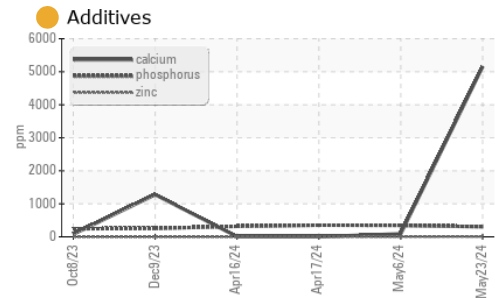
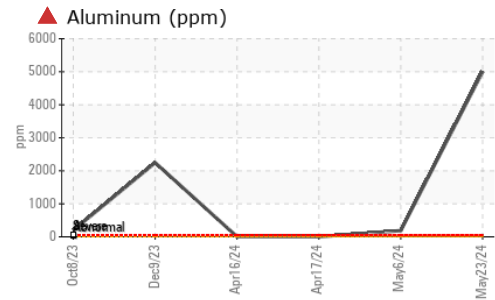
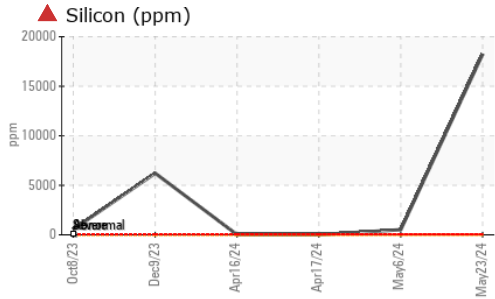
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 18239	▲ 517	5
Sodium	ppm	ASTM D5185m	2523	57	<1
Potassium	ppm	ASTM D5185m >20	317	20	2

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.221	0.75	0.83



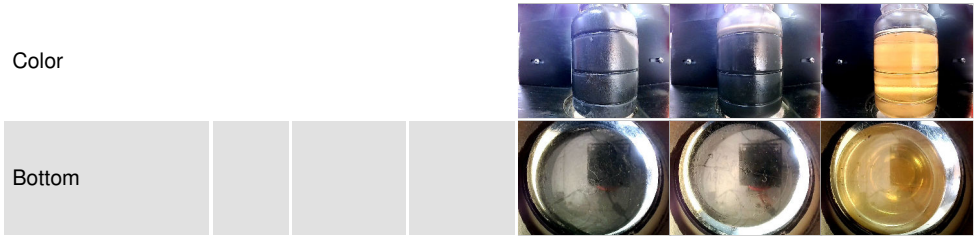
OIL ANALYSIS REPORT



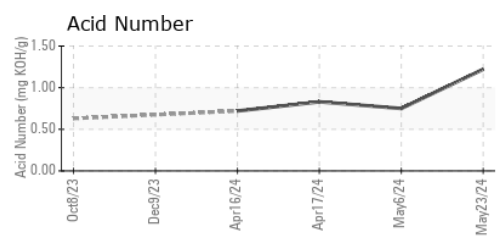
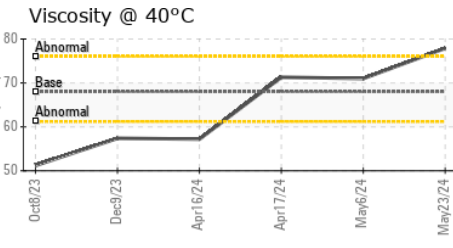
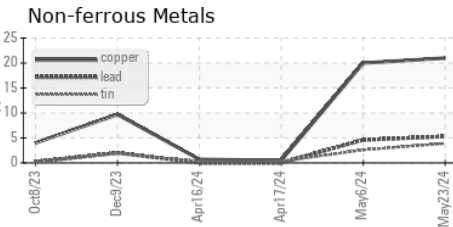
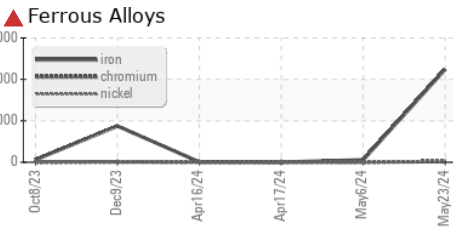
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	77.9	71.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936849
Lab Number : 06214877
Unique Number : 11087741
Test Package : IND 2
Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 21 Jun 2024 - Don Baldrige

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

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)