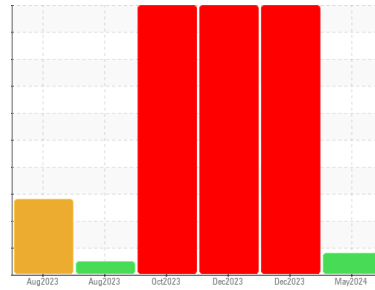




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**Building 12**  
 Machine Id  
**Roll Crusher 1**  
 Component  
**Northwest Bearing**  
 Fluid  
**MOBIL MOBILGEAR 600 XP ISO 68 (3 GAL)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

A decrease in the iron level is noted. All other 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0936862</b>	WC0882558	WC0882542
Sample Date	Client Info		<b>09 May 2024</b>	31 Dec 2023	09 Dec 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	64	236
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>ABNORMAL</b>	SEVERE	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>▲ 87</b>	▲ 292	▲ 1566
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	11
Nickel	ppm	ASTM D5185m >20	<b>1</b>	3	19
Titanium	ppm	ASTM D5185m	<b>1</b>	1	10
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	● 29	● 212
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >20	<b>1</b>	3	7
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>37</b>	25	19
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>7</b>	0	0
Manganese	ppm	ASTM D5185m	<b>1</b>	3	17
Magnesium	ppm	ASTM D5185m	<b>2</b>	16	106
Calcium	ppm	ASTM D5185m	<b>9</b>	16	97
Phosphorus	ppm	ASTM D5185m	<b>347</b>	334	286
Zinc	ppm	ASTM D5185m	<b>2</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>9666</b>	8431	7559

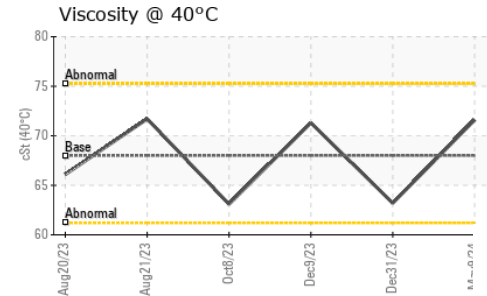
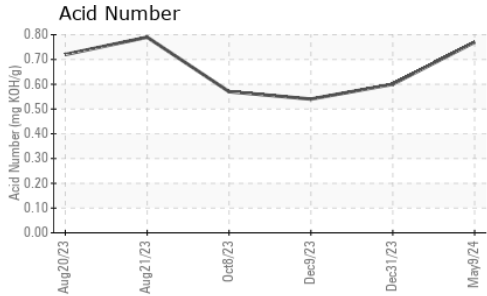
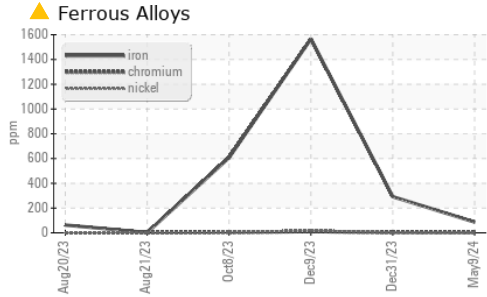
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>22</b>	▲ 86	▲ 585
Sodium	ppm	ASTM D5185m	<b>0</b>	9	61
Potassium	ppm	ASTM D5185m >20	<b>3</b>	3	25

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.77</b>	0.60	0.54

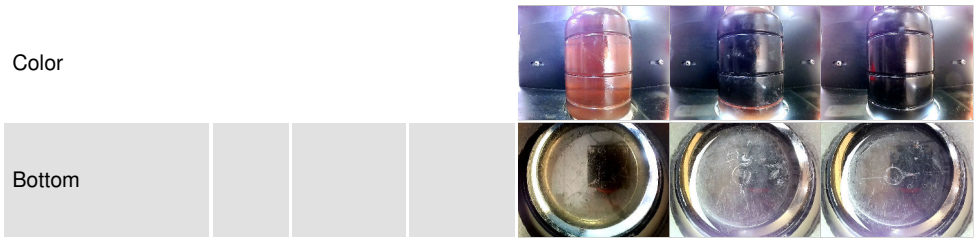
# OIL ANALYSIS REPORT



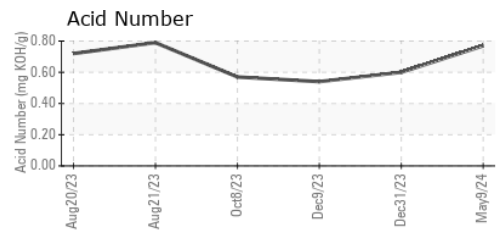
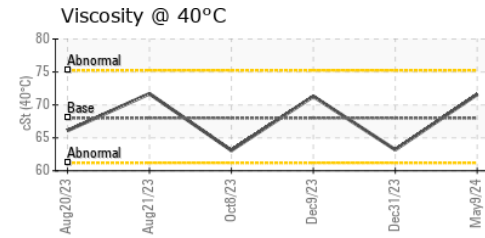
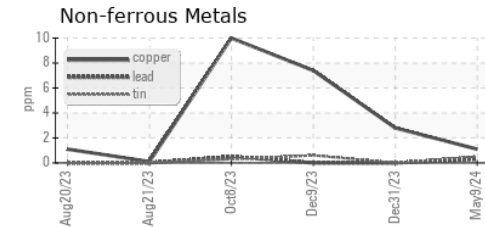
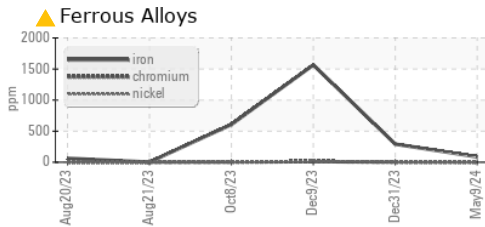
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	71.6	63.2	71.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0936862      **Received** : 13 May 2024  
**Lab Number** : 06177796      **Tested** : 14 May 2024  
**Unique Number** : 11029122      **Diagnosed** : 15 May 2024 - Angela Borella  
**Test Package** : IND 2

**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)