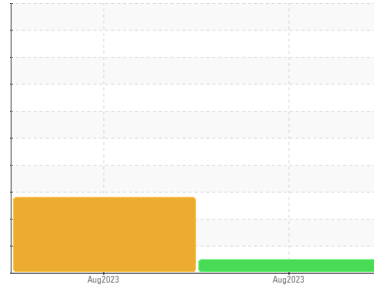




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. 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	<b>WC0820059</b>	WC0820057	---
Sample Date	Client Info	<b>21 Aug 2023</b>	20 Aug 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	226
Oil Changed	Client Info	<b>Changed</b>	Not Changd	---
Sample Status		<b>NORMAL</b>	ABNORMAL	---

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>2</b>	▲ 63
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	2
Silver	ppm	ASTM D5185m	<b>0</b>	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	9
Lead	ppm	ASTM D5185m >20	<b>0</b>	0
Copper	ppm	ASTM D5185m >20	<b>&lt;1</b>	1
Tin	ppm	ASTM D5185m >20	<b>0</b>	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>37</b>	22
Barium	ppm	ASTM D5185m	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1
Magnesium	ppm	ASTM D5185m	<b>2</b>	5
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	7
Phosphorus	ppm	ASTM D5185m	<b>351</b>	352
Zinc	ppm	ASTM D5185m	<b>0</b>	15
Sulfur	ppm	ASTM D5185m	<b>10090</b>	9858

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>3</b>	▲ 29
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	4
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0

### FLUID CLEANLINESS

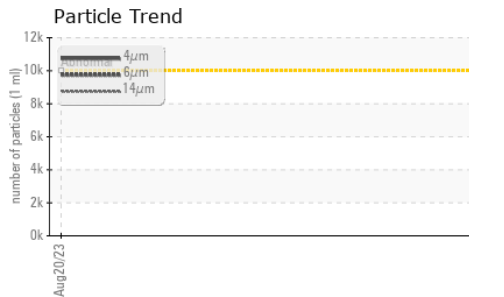
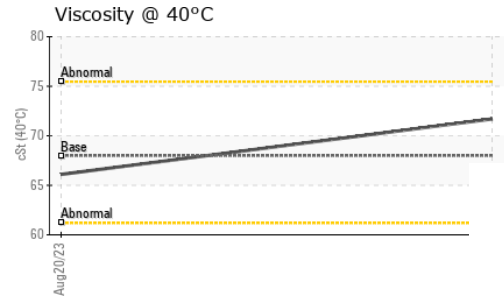
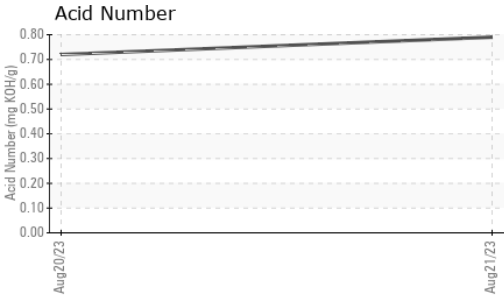
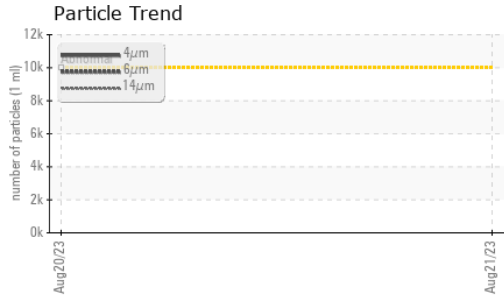
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>7582</b>	---
Particles >6µm	ASTM D7647	>2500	<b>1876</b>	---
Particles >14µm	ASTM D7647	>160	<b>42</b>	---
Particles >21µm	ASTM D7647	>40	<b>12</b>	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>20/18/13</b>	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.79</b>	0.72



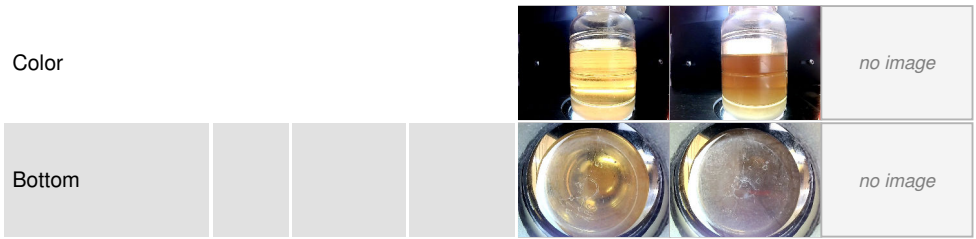
# OIL ANALYSIS REPORT



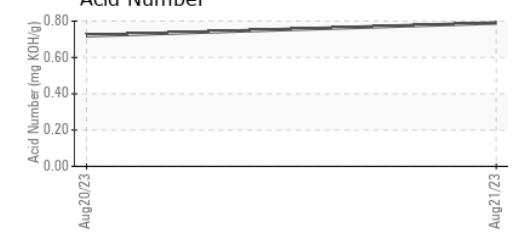
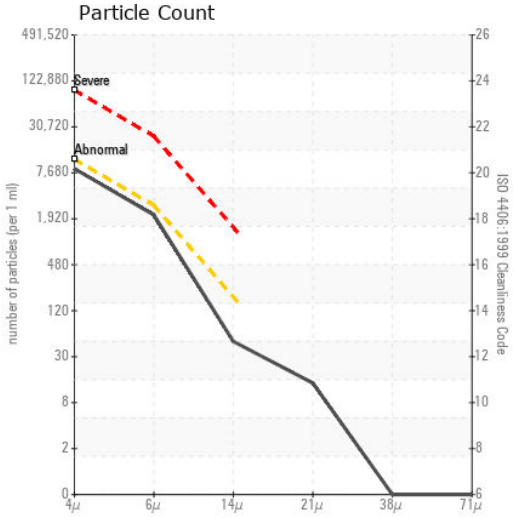
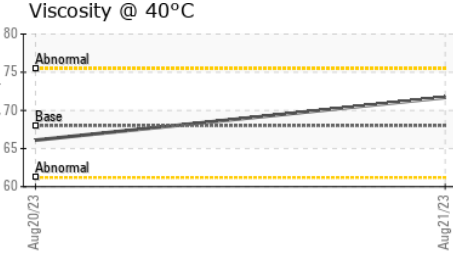
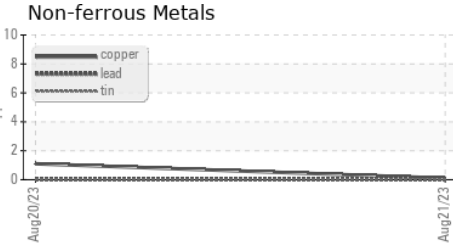
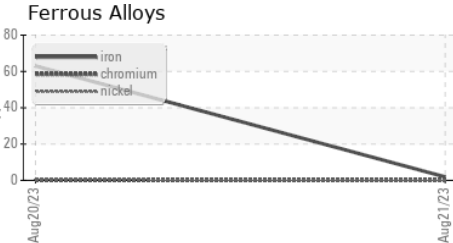
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	71.7	66.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0820059 **Received** : 22 Aug 2023  
**Lab Number** : 05930824 **Diagnosed** : 23 Aug 2023  
**Unique Number** : 10616095 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**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)

T:  
F: