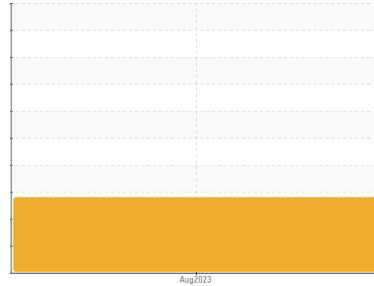




# PROBLEM SUMMARY

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

Sample Rating Trend

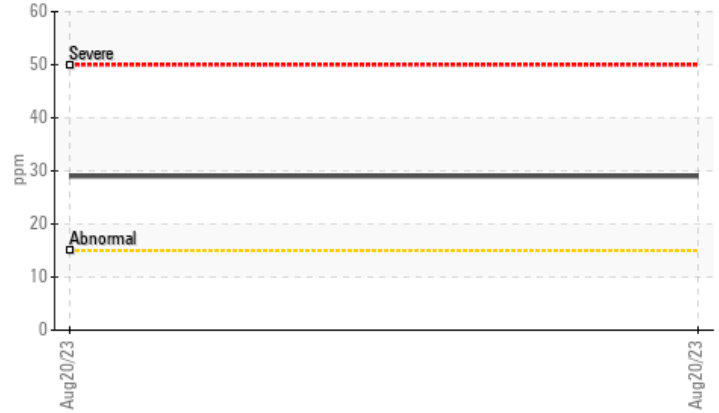


## COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Silicon (ppm)



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>20	▲ 63	---	---
Silicon	ppm	ASTM D5185m	>15	▲ 29	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---

Customer Id: THRPIT  
 Sample No.: WC0820057  
 Lab Number: 05930825  
 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](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

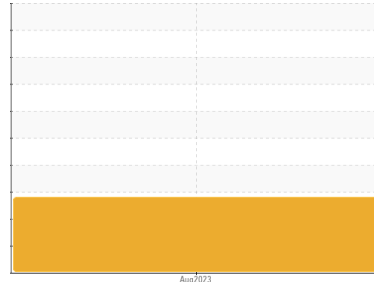
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



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

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

The iron level is abnormal. All other component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. Moderate concentration of visible dirt/debris present 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>WC0820057</b>	---	---
Sample Date	Client Info	<b>20 Aug 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---
Oil Age	hrs	Client Info	<b>226</b>	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>22</b>	---
Barium	ppm	ASTM D5185m	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>1</b>	---
Magnesium	ppm	ASTM D5185m	<b>5</b>	---
Calcium	ppm	ASTM D5185m	<b>7</b>	---
Phosphorus	ppm	ASTM D5185m	<b>352</b>	---
Zinc	ppm	ASTM D5185m	<b>15</b>	---
Sulfur	ppm	ASTM D5185m	<b>9858</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>▲ 29</b>	---
Sodium	ppm	ASTM D5185m	<b>4</b>	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---

## FLUID DEGRADATION

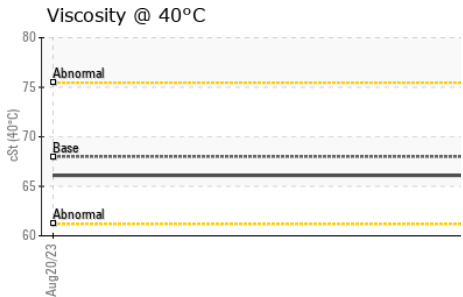
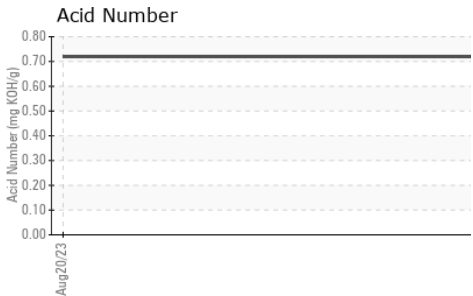
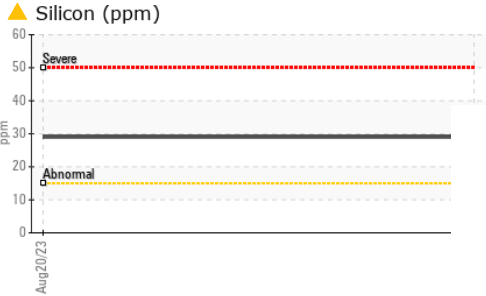
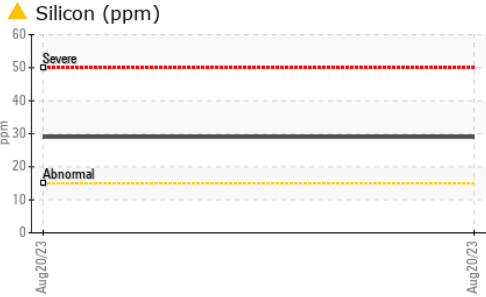
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.72</b>	---

## VISUAL

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



# OIL ANALYSIS REPORT

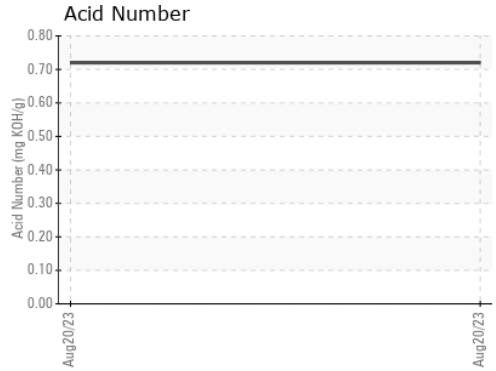
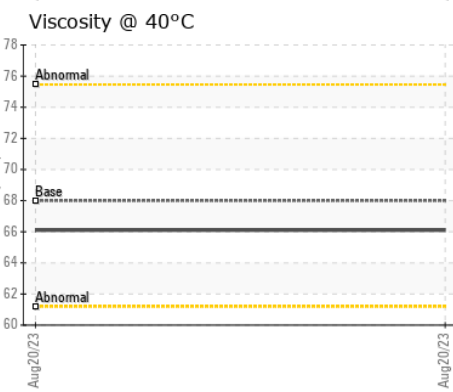
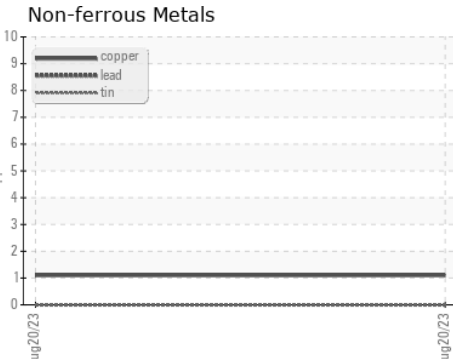
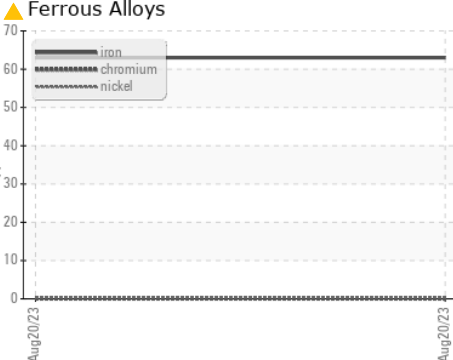


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	<b>66.1</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0820057 **Received** : 22 Aug 2023  
**Lab Number** : 05930825 **Diagnosed** : 23 Aug 2023  
**Unique Number** : 10616096 **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)