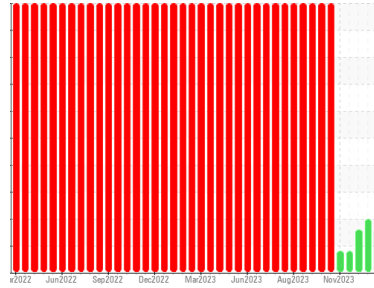




# OIL ANALYSIS REPORT

Area  
**Building 12**  
 Machine Id  
**Cone 1**  
 Component  
**Bulk Tank Lube System**  
 Fluid  
**Mobilgear 629 (105 GAL)**

Sample Rating Trend



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

Bearing and/or gear wear is indicated.

### 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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0901928</b>	WC0901963	WC0901964
Sample Date	Client Info		<b>24 Feb 2024</b>	05 Feb 2024	24 Jan 2024
Machine Age	hrs	Client Info	<b>1340</b>	1340	1340
Oil Age	hrs	Client Info	<b>1340</b>	1340	1340
Oil Changed	Client Info		<b>Filtered</b>	Filtered	Filtered
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>▲ 30</b>	▲ 29	▲ 25
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>5</b>	4	4
Lead	ppm	ASTM D5185m >20	<b>18</b>	19	18
Copper	ppm	ASTM D5185m >20	<b>▲ 74</b>	▲ 65	▲ 82
Tin	ppm	ASTM D5185m >20	<b>8</b>	6	5
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>12</b>	14	14
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>1</b>	1	1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>6</b>	6	6
Calcium	ppm	ASTM D5185m	<b>15</b>	15	15
Phosphorus	ppm	ASTM D5185m	<b>242</b>	246	251
Zinc	ppm	ASTM D5185m	<b>12</b>	11	13
Sulfur	ppm	ASTM D5185m	<b>15721</b>	15718	16072

## CONTAMINANTS

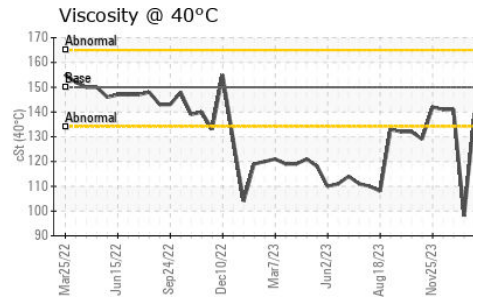
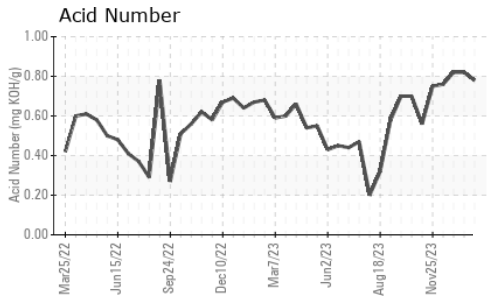
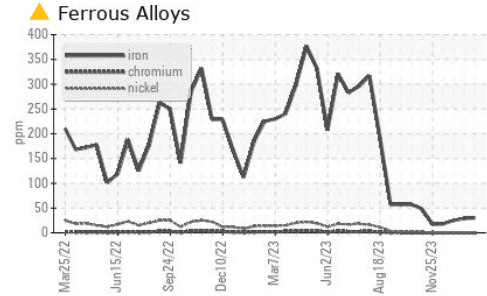
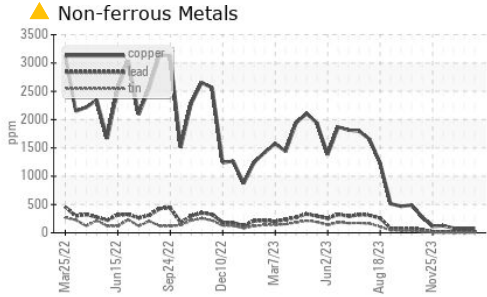
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>15</b>	12	11
Sodium	ppm	ASTM D5185m	<b>3</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.78</b>	0.82	0.82



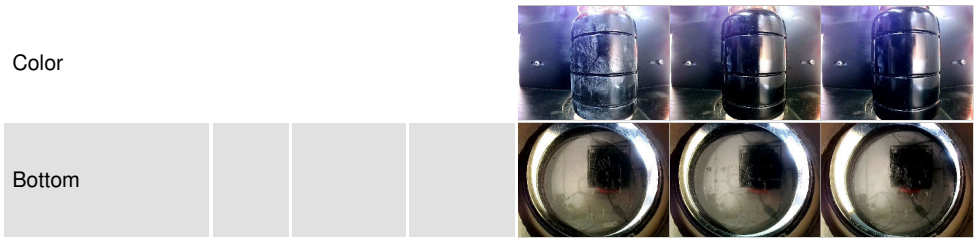
# OIL ANALYSIS REPORT



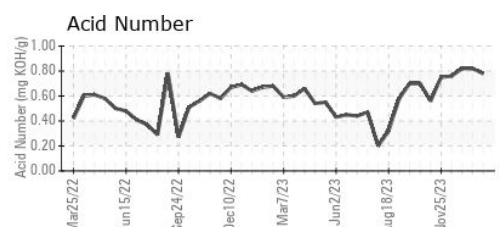
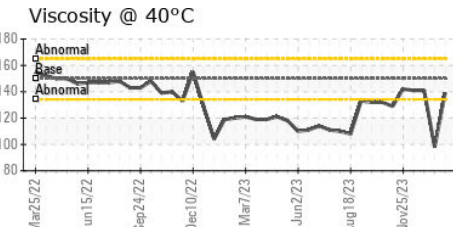
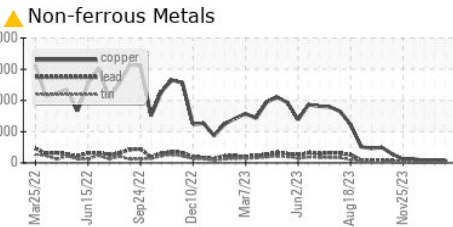
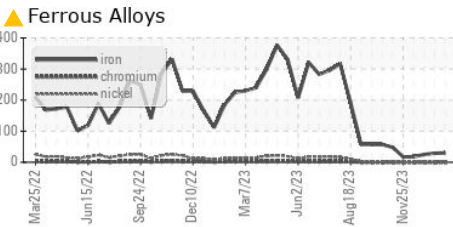
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	139	98.0

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901928  
**Lab Number** : 06140059  
**Unique Number** : 10964867  
**Test Package** : IND 2  
**Received** : 05 Apr 2024  
**Tested** : 08 Apr 2024  
**Diagnosed** : 08 Apr 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)