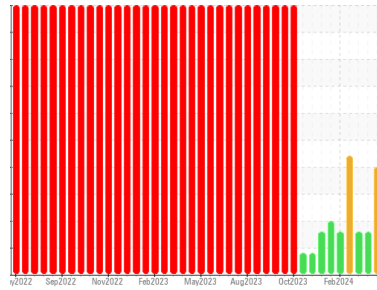




OIL ANALYSIS REPORT

Sample Rating Trend



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

DIAGNOSIS

- Recommendation**
We advise that you check all areas where dirt can enter the system. 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**
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- 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		WC0936869	WC0901936	WC0901953
Sample Date	Client Info		26 Apr 2024	23 Mar 2024	06 Mar 2024
Machine Age	hrs	Client Info	1340	1340	1340
Oil Age	hrs	Client Info	1340	1340	1340
Oil Changed	Client Info		Filtered	Filtered	Filtered
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	▲ 47	▲ 32	▲ 34
Chromium	ppm	ASTM D5185m >20	<1	0	0
Nickel	ppm	ASTM D5185m >20	1	<1	<1
Titanium	ppm	ASTM D5185m	1	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	● 8	3	5
Lead	ppm	ASTM D5185m >20	18	18	19
Copper	ppm	ASTM D5185m >20	▲ 33	▲ 53	▲ 76
Tin	ppm	ASTM D5185m >20	6	7	8
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

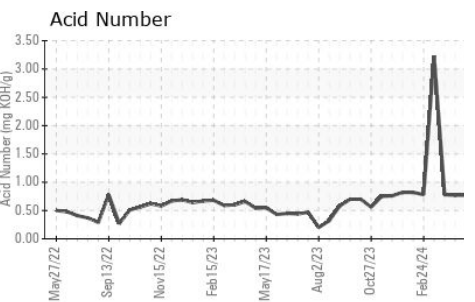
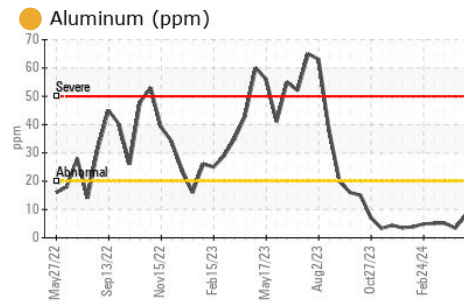
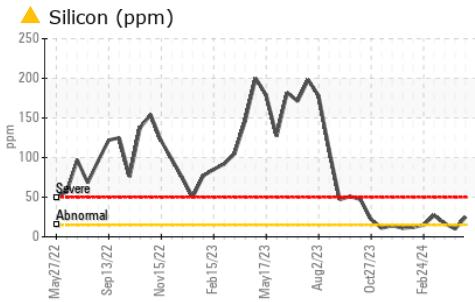
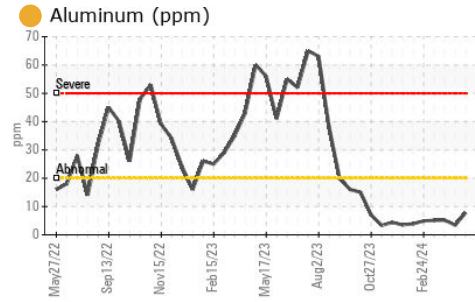
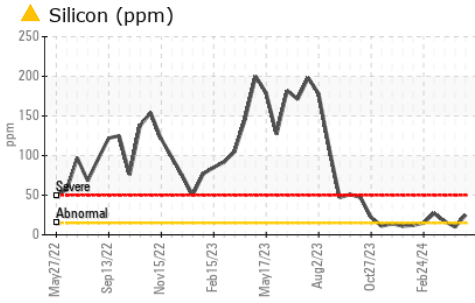
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	14	10	12
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	2	<1	<1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	8	6	6
Calcium	ppm	ASTM D5185m	20	14	15
Phosphorus	ppm	ASTM D5185m	238	223	245
Zinc	ppm	ASTM D5185m	18	11	10
Sulfur	ppm	ASTM D5185m	16113	15561	15541

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 25	10	17
Sodium	ppm	ASTM D5185m	<1	2	3
Potassium	ppm	ASTM D5185m >20	3	1	0

FLUID DEGRADATION

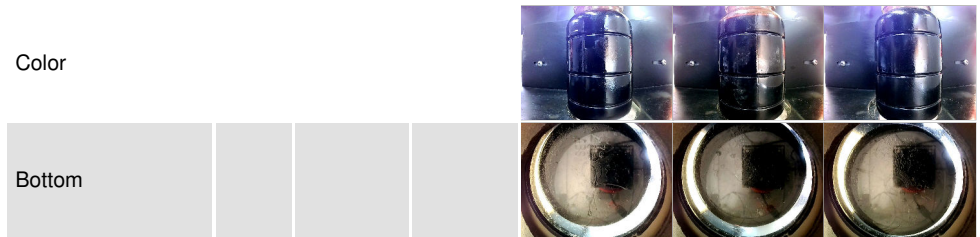
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.77	0.77	0.78



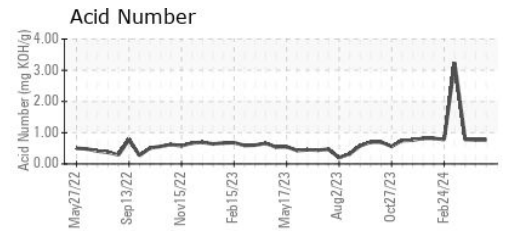
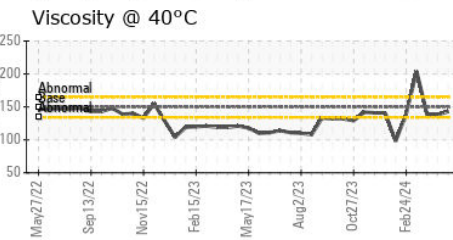
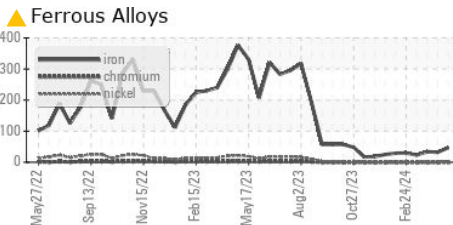
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>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	143	138

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936869
Lab Number : 06177807
Unique Number : 11029133
Test Package : IND 2

Received : 13 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Angela Borella

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: