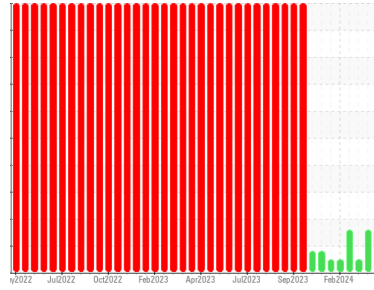




OIL ANALYSIS REPORT

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		WC0901936	WC0901953	WC0901956
Sample Date	Client Info		23 Mar 2024	06 Mar 2024	28 Feb 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	---

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	▲ 32	▲ 34	▲ 23
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	<1	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	3	5	5
Lead	ppm	ASTM D5185m >20	18	19	<1
Copper	ppm	ASTM D5185m >20	▲ 53	▲ 76	8
Tin	ppm	ASTM D5185m >20	7	8	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	12	● 114
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1	● 410
Manganese	ppm	ASTM D5185m	<1	<1	1
Magnesium	ppm	ASTM D5185m	6	6	4
Calcium	ppm	ASTM D5185m	14	15	13
Phosphorus	ppm	ASTM D5185m	223	245	● 1242
Zinc	ppm	ASTM D5185m	11	10	6
Sulfur	ppm	ASTM D5185m	15561	15541	● 28936

CONTAMINANTS

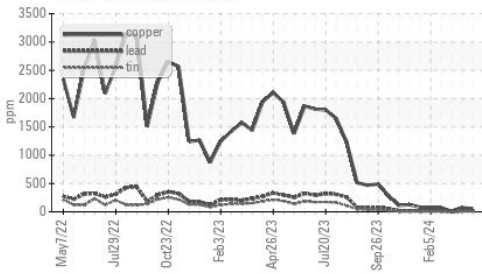
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	10	17	▲ 27
Sodium	ppm	ASTM D5185m	2	3	6
Potassium	ppm	ASTM D5185m >20	1	0	3

FLUID DEGRADATION

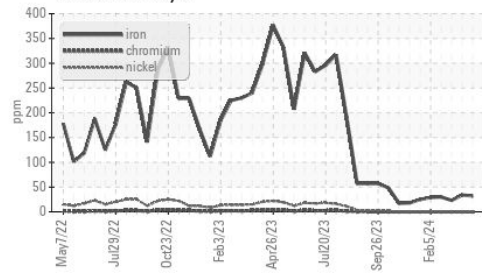
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.77	0.78	▲ 3.23

OIL ANALYSIS REPORT

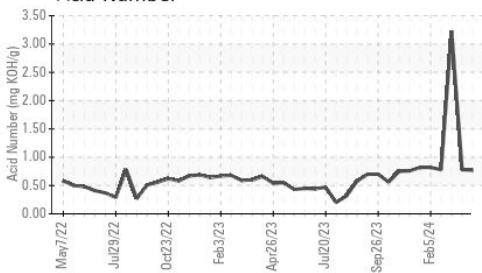
Non-ferrous Metals



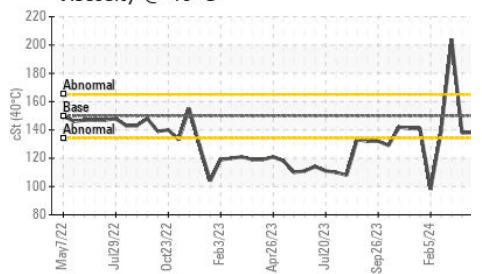
Ferrous Alloys



Acid Number



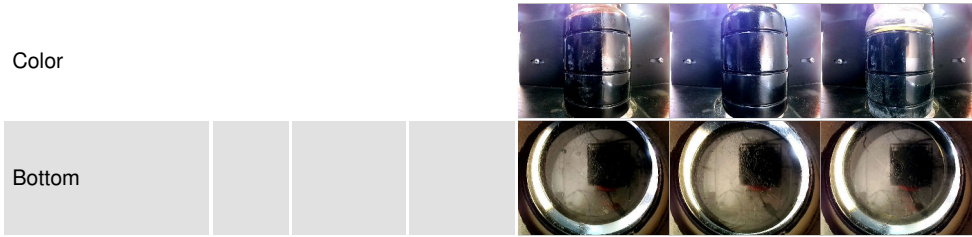
Viscosity @ 40°C



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

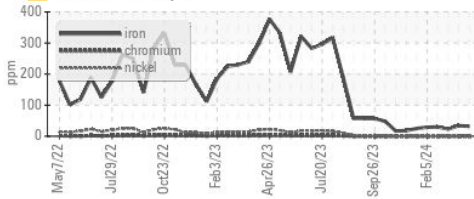
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	138	▲ 204

SAMPLE IMAGES	method	limit/base	current	history1	history2
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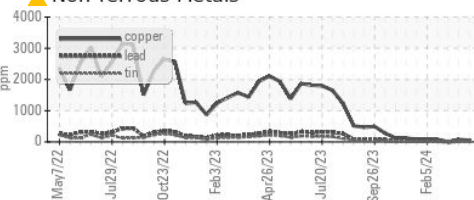


GRAPHS

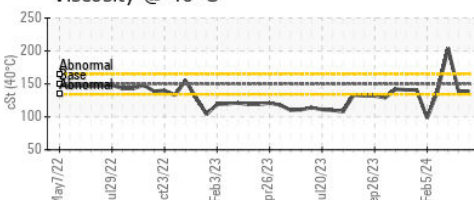
Ferrous Alloys



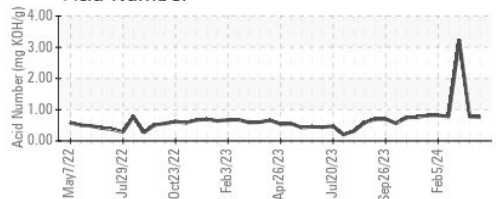
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0901936 **Received** : 05 Apr 2024
Lab Number : 06140057 **Tested** : 08 Apr 2024
Unique Number : 10964865 **Diagnosed** : 08 Apr 2024 - Don Baldrige
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)

T:
F: