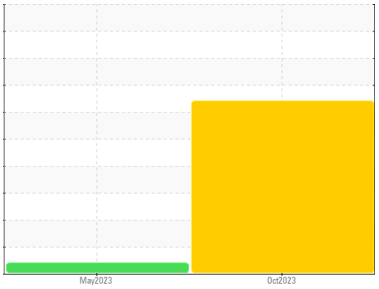
PROBLEM SUMMARY

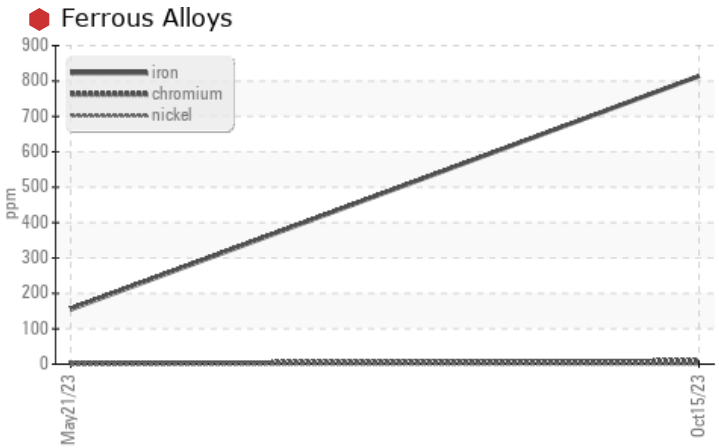
Sample Rating Trend

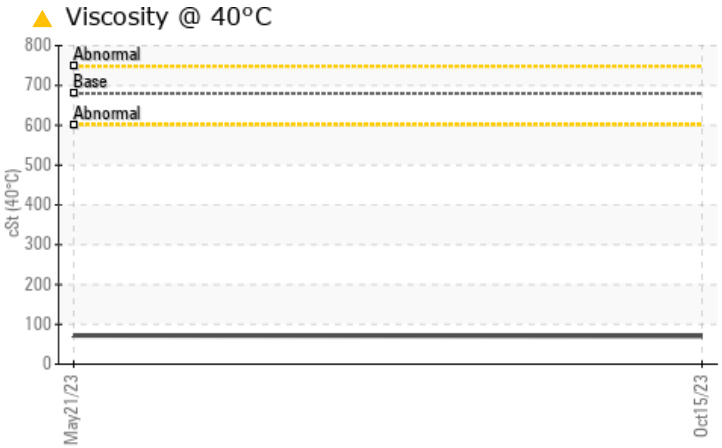


WEAR

Area
COLORING
Machine Id
LN1 Slurry Pump
Component
Gearbox
Fluid
MOBIL MOBILGEAR 600 XP 680 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	ATTENTION	---
Iron	ppm	ASTM D5185m	>200	**814**	155	---
Visc @ 40°C	cSt	ASTM D445	680	**70.6**	71.93	---

Customer Id: THRPIT
Sample No.: WC0853777
Lab Number: 06008460
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

21 May 2023 Diag: Jonathan Hester

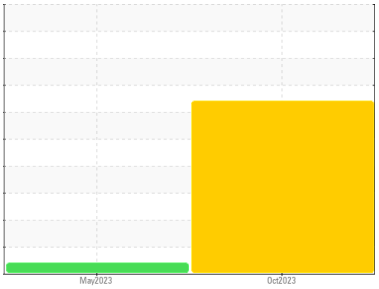
VISCOSITY

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
COLORING
Machine Id
LN1 Slurry Pump
Component
Gearbox
Fluid
MOBIL MOBILGEAR 600 XP 680 (--- GAL)

DIAGNOSIS

Recommendation
We recommend an early resample to monitor this condition.

Wear
Gear wear is indicated. All other metal levels are typical for a new component breaking in.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0853777**	WC0820081	---
Sample Date		Client Info		**15 Oct 2023**	21 May 2023	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**1450**	0	---
Oil Changed		Client Info		**Not Changd**	N/A	---
Sample Status				**SEVERE**	ATTENTION	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**814**	155	---
Chromium	ppm	ASTM D5185m	>15	**9**	2	---
Nickel	ppm	ASTM D5185m	>15	**1**	<1	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	---
Lead	ppm	ASTM D5185m	>100	**0**	2	---
Copper	ppm	ASTM D5185m	>200	**5**	29	---
Tin	ppm	ASTM D5185m	>25	**<1**	2	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**35**	14	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**2**	2	---
Manganese	ppm	ASTM D5185m		**8**	2	---
Magnesium	ppm	ASTM D5185m		**2**	<1	---
Calcium	ppm	ASTM D5185m		**4**	3	---
Phosphorus	ppm	ASTM D5185m		**292**	371	---
Zinc	ppm	ASTM D5185m		**0**	2	---
Sulfur	ppm	ASTM D5185m		**7690**	10652	---

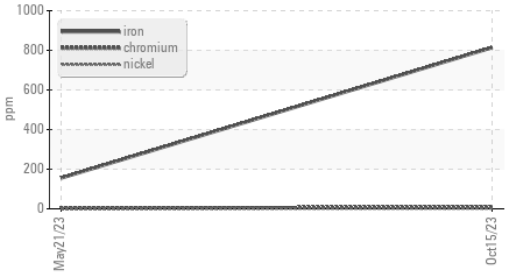
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**10**	9	---
Sodium	ppm	ASTM D5185m		**1**	<1	---
Potassium	ppm	ASTM D5185m	>20	**0**	1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.28**	0.67	---

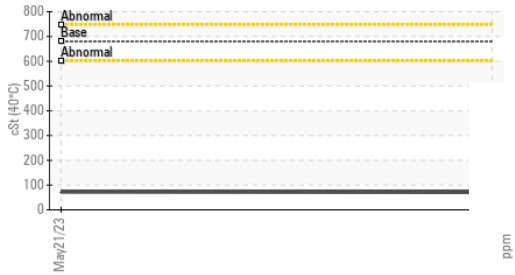
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

OIL ANALYSIS REPORT

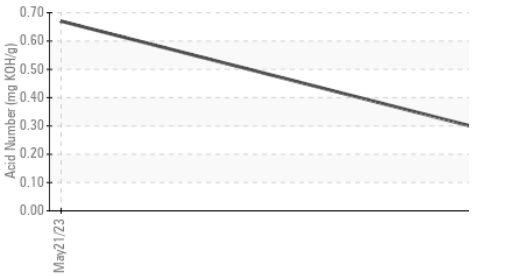
Ferrous Alloys



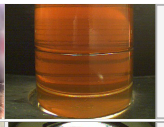
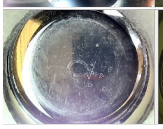
Viscosity @ 40°C



Acid Number

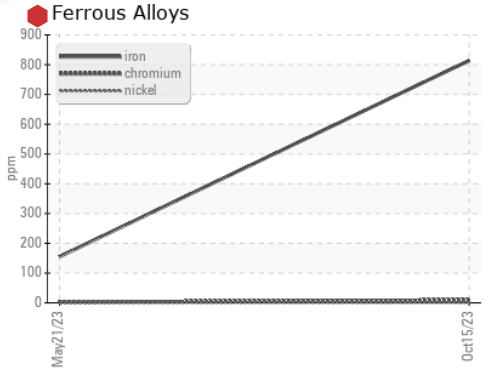


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	680	▲ **70.6**	▲ 71.93	---

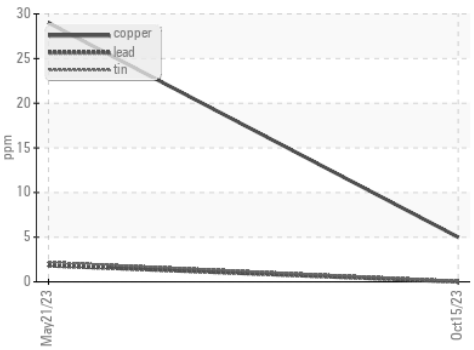
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

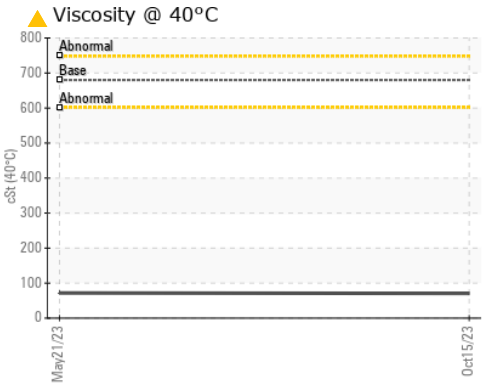
Ferrous Alloys



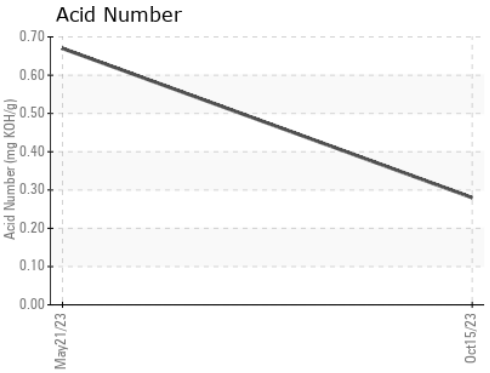
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0853777
Lab Number : 06008460
Unique Number : 10742222
Test Package : IND 2

Received : 15 Nov 2023
Diagnosed : 17 Nov 2023
Diagnostician : Don Baldridge

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)

3M - PITTSBORO
4191 NC 87 S
MONCURE, NC
US 27559
Contact: CHARLES JARRELL
cjarrell@mmm.com
T:
F:

Report Id: THRPIT [WUSCAR] 06008460 (Generated: 11/17/2023 12:46:29) Rev: 1

Submitted By: JORDAN TUTEN