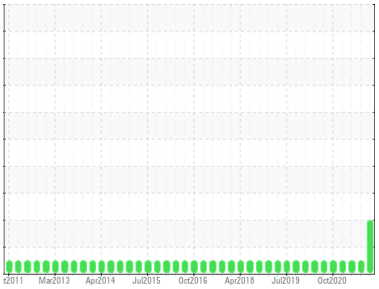
PROBLEM SUMMARY

Sample Rating Trend

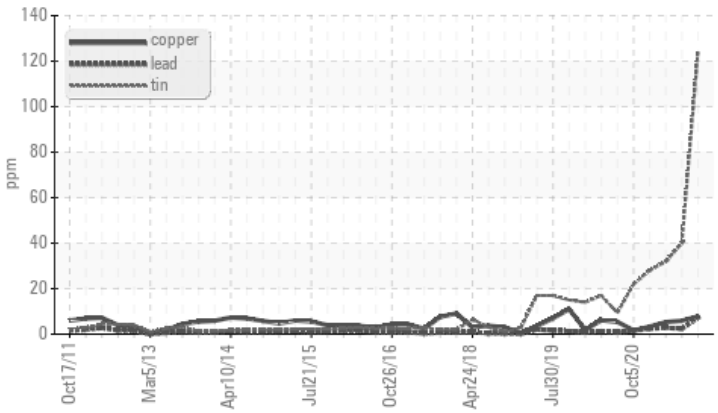


WEAR

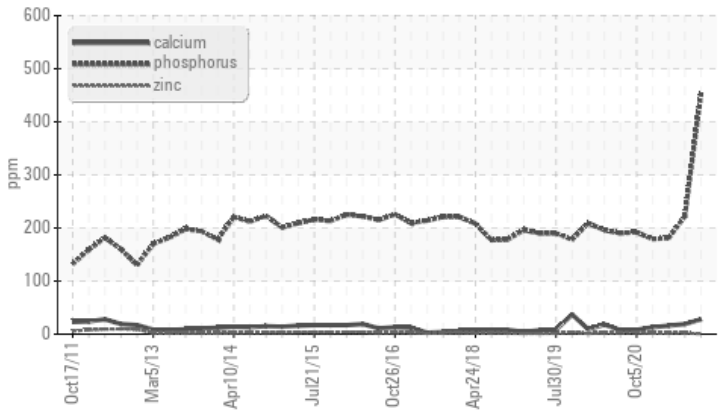
Area
8
Machine Id
8-2-301-B FM #2 Trunion - Feed End
Component
Journal Bearing
Fluid
MOBIL MOBILGEAR SHC 460 (350 LTR)

COMPONENT CONDITION SUMMARY

Non-ferrous Metals



Additives



RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Tin	ppm	ASTM D5185(m)	>80	▲ **124**	40	32
Antimony	ppm	ASTM D5185(m)		▲ **17**	4	3
Phosphorus	ppm	ASTM D5185(m)	180	▲ **453**	222	181
Sulfur	ppm	ASTM D5185(m)	4270	▲ **5033**	4051	3591

Customer Id: STMBOW
Sample No.: WC0627342
Lab Number: 02455193
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
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Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	MISSED	Nov 19 2021	?	We recommend an early resample to monitor this condition.
Check Fluid Source	MISSED	Nov 19 2021	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

06 Jul 2021 Diag: Kevin Marson

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

15 Apr 2021 Diag: Kevin Marson

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

21 Jan 2021 Diag: Kevin Marson

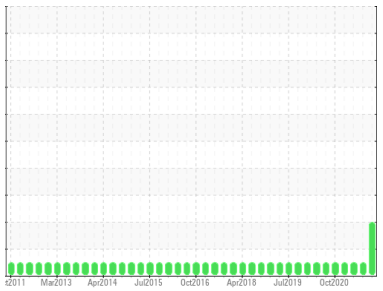
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
8
Machine Id
8-2-301-B FM #2 Trunion - Feed End
Component
Journal Bearing
Fluid
MOBIL MOBILGEAR SHC 460 (350 LTR)

DIAGNOSIS

Recommendation
Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear
Tin and antimony ppm levels are abnormal. A sharp increase in the tin level is noted. A sharp increase in the antimony level is noted. Bearing wear is indicated.

Contamination
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0627342**	WC0600017	WC0568166
Sample Date		Client Info		**19 Oct 2021**	06 Jul 2021	15 Apr 2021
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>60	**11**	8	8
Chromium	ppm	ASTM D5185(m)		**0**	0	0
Nickel	ppm	ASTM D5185(m)		**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>4	**1**	2	1
Lead	ppm	ASTM D5185(m)	>250	**7**	2	3
Copper	ppm	ASTM D5185(m)	>125	**8**	6	5
Tin	ppm	ASTM D5185(m)	>80	▲ **124**	40	32
Antimony	ppm	ASTM D5185(m)		▲ **17**	4	3
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5.7	**11**	7	8
Barium	ppm	ASTM D5185(m)	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	**0**	0	0
Manganese	ppm	ASTM D5185(m)	0.0	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	0.0	**1**	1	1
Calcium	ppm	ASTM D5185(m)	0.0	**28**	19	16
Phosphorus	ppm	ASTM D5185(m)	180	▲ **453**	222	181
Zinc	ppm	ASTM D5185(m)	0.8	**<1**	2	2
Sulfur	ppm	ASTM D5185(m)	4270	▲ **5033**	4051	3591
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

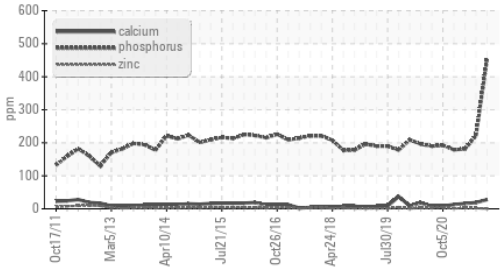
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**7**	11	5
Sodium	ppm	ASTM D5185(m)		**<1**	0	<1
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**176114**	233616	233836
Particles >6µm		ASTM D7647	>320000	**134046**	143651	127947
Particles >14µm		ASTM D7647	>160000	**12309**	3985	3814
Particles >21µm		ASTM D7647	>40000	**202**	127	109
Particles >38µm		ASTM D7647	>10000	**0**	1	0
Particles >71µm		ASTM D7647	>2500	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/25/24	**25/24/21**	25/24/19	25/24/19

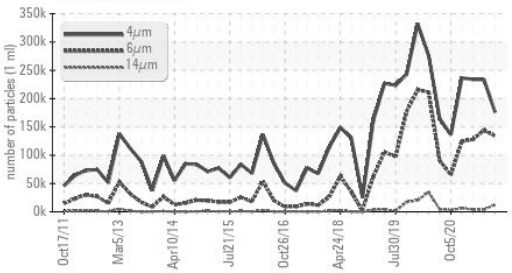
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.38	**0.75**	0.67	0.72

OIL ANALYSIS REPORT

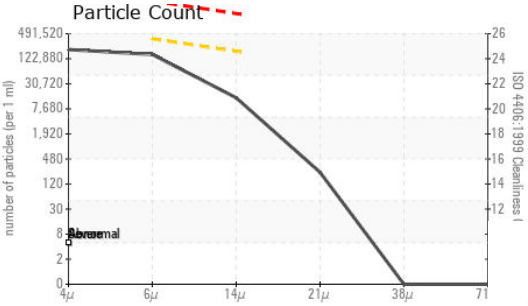
Additives



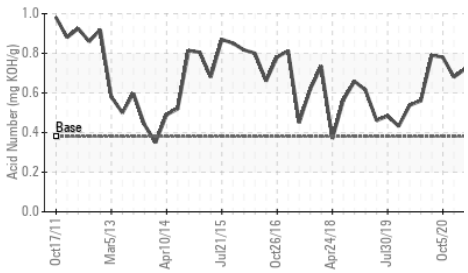
Particle Trend



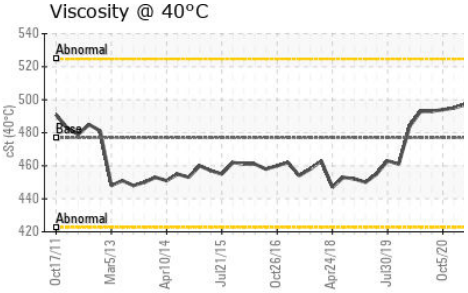
Particle Count



Acid Number

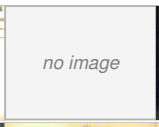


Viscosity @ 40°C



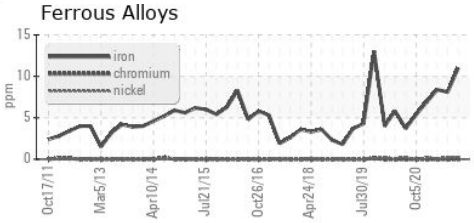
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**LIGHT**	VLITE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	LTMOD
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	477	**463**	485	497

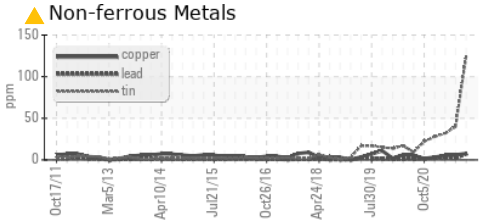
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

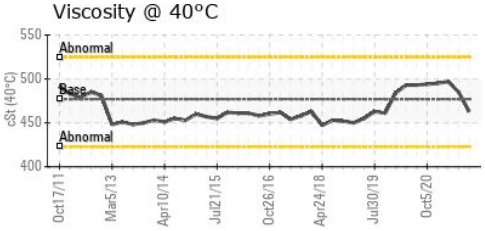
Ferrous Alloys



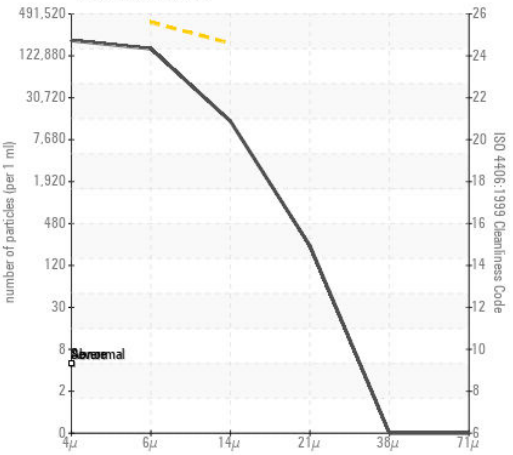
Non-ferrous Metals



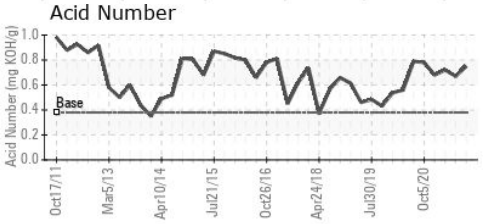
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0627342 **Received** : 09 Nov 2021
Lab Number : 02455193 **Diagnosed** : 11 Nov 2021
Unique Number : 5306731 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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