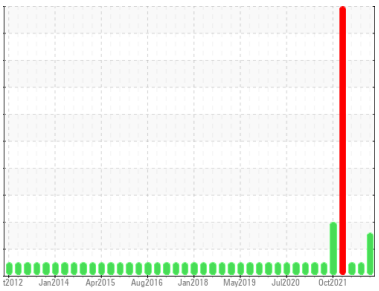
PROBLEM SUMMARY

Sample Rating Trend

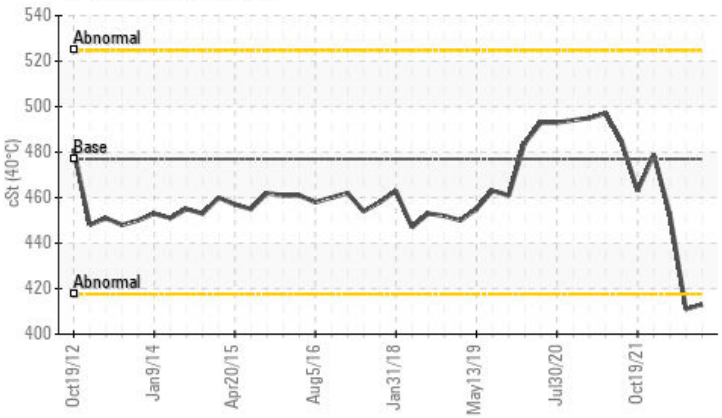


WEAR

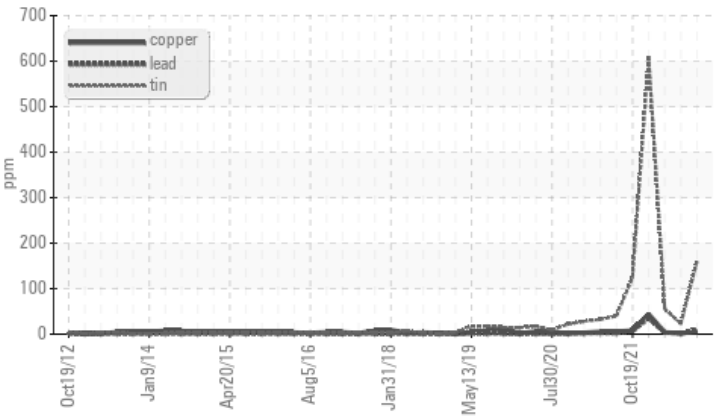
Area
8
Machine Id
8-2-301-B FM #2 Trunion - Feed End
Component
Journal Bearing
Fluid
MOBIL MOBILGEAR SHC 460 (350 LTR)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Non-ferrous Metals



RECOMMENDATION

We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	NORMAL	NORMAL
Tin	ppm	ASTM D5185(m)	>80	▲ **160**	23	55
Antimony	ppm	ASTM D5185(m)		▲ **14**	3	7
Visc @ 40°C	cSt	ASTM D7279(m)	477	▲ **413**	411	453

Customer Id: STMBOW
Sample No.: WC0714975
Lab Number: 02507465
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
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	Dec 07 2022	?	We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).

HISTORICAL DIAGNOSIS

16 May 2022 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

11 Jan 2022 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

17 Nov 2021 Diag: Bill Quesnel

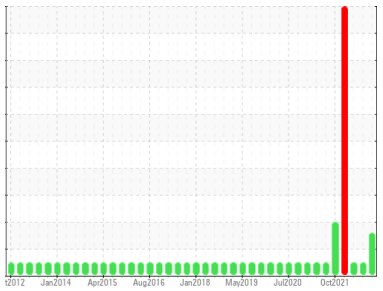
WEAR

We advise that you check all areas where contaminants can enter the system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).Aluminum and tin ppm levels are severe. Antimony ppm levels are noted. Iron ppm levels are marginal. Bearing wear is indicated. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Calcium and/or magnesium levels higher than normal indicating possible contamination with cement dust, advise investigate. The AN level is acceptable for this fluid.

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

We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).

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

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0714975**	WC0685797	WC0655809
Sample Date		Client Info		**26 Jul 2022**	16 May 2022	11 Jan 2022
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	**10**	5	7
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)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>4	**1**	<1	2
Lead	ppm	ASTM D5185(m)	>250	**9**	1	3
Copper	ppm	ASTM D5185(m)	>125	**5**	2	4
Tin	ppm	ASTM D5185(m)	>80	▲ **160**	23	55
Antimony	ppm	ASTM D5185(m)		▲ **14**	3	7
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

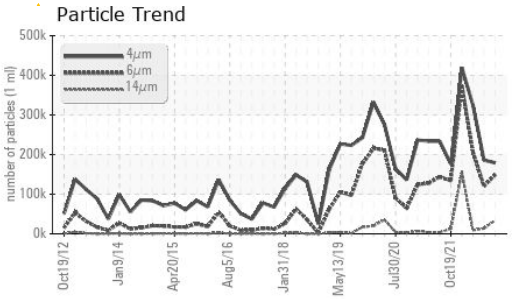
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5.7	**1**	2	24
Barium	ppm	ASTM D5185(m)	0.0	**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)	0.0	**0**	0	0
Manganese	ppm	ASTM D5185(m)	0.0	**<1**	0	0
Magnesium	ppm	ASTM D5185(m)	0.0	**2**	<1	1
Calcium	ppm	ASTM D5185(m)	0.0	**59**	9	26
Phosphorus	ppm	ASTM D5185(m)	180	**265**	330	401
Zinc	ppm	ASTM D5185(m)	0.8	**<1**	1	2
Sulfur	ppm	ASTM D5185(m)	4270	**1378**	1356	4465
Lithium	ppm	ASTM D5185(m)		**<1**	0	0

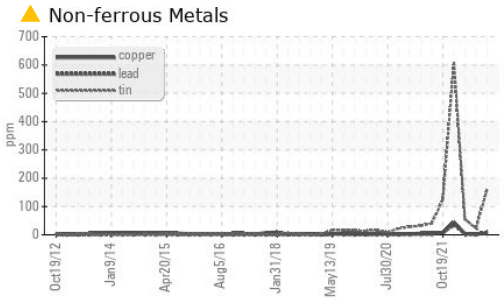
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**4**	4	6
Sodium	ppm	ASTM D5185(m)		**<1**	0	<1
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	3

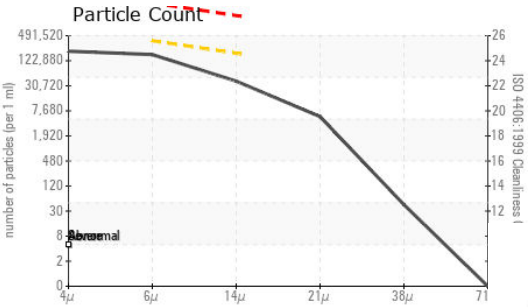
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**179234**	185921	324383
Particles >6µm		ASTM D7647	>320000	**148857**	120081	206375
Particles >14µm		ASTM D7647	>160000	**34409**	13380	8906
Particles >21µm		ASTM D7647	>40000	**4865**	2008	239
Particles >38µm		ASTM D7647	>10000	**38**	28	0
Particles >71µm		ASTM D7647	>2500	**0**	8	0
Oil Cleanliness		ISO 4406 (c)	>--/25/24	**25/24/22**	25/24/21	26/25/20

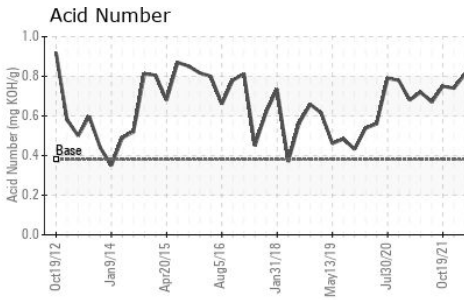
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.38	**0.56**	0.91	0.81

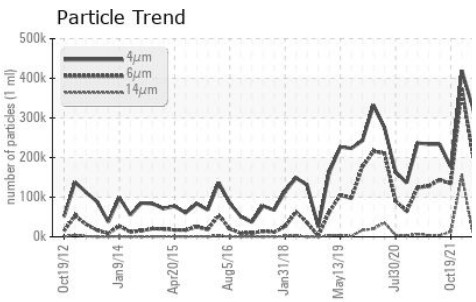
OIL ANALYSIS REPORT









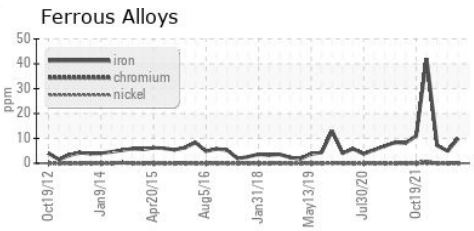


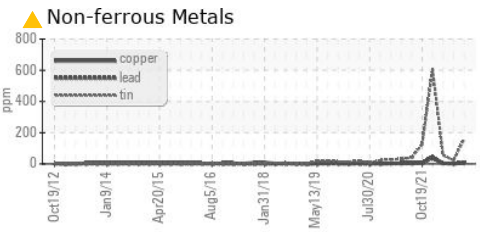
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**VLITE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	LIGHT
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

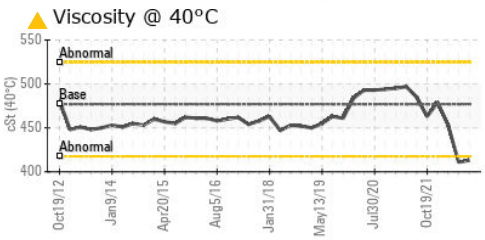
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	477	▲ **413**	411	453

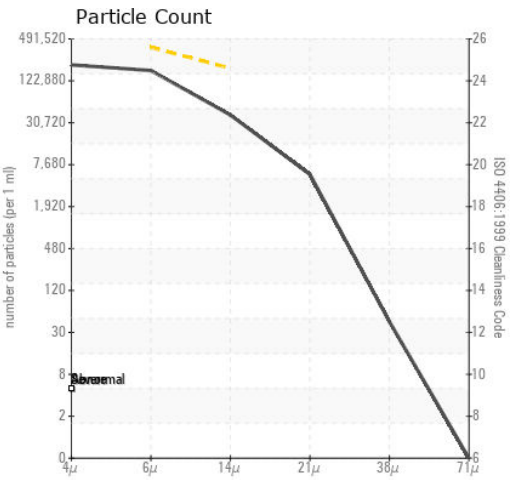
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

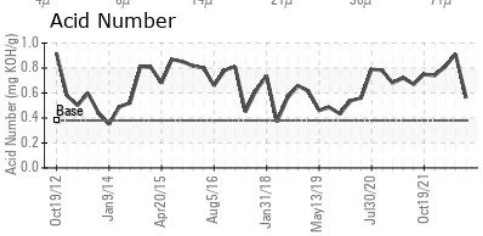
GRAPHS











ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0714975 **Received** : 26 Aug 2022
Lab Number : 02507465 **Diagnosed** : 29 Aug 2022
Unique Number : 5448435 **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.

ST. MARYS CEMENT CO.
400 BOWMANVILLE AVENUE
BOWMANVILLE, ON
CA L1C 7B5
Contact: Lou Traiforos
lou.traiforos@vcimentos.com
T: (905)440-5874
F: (905)623-4695