

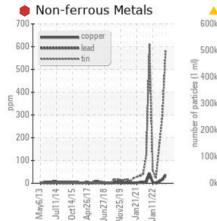
PROBLEM SUMMARY

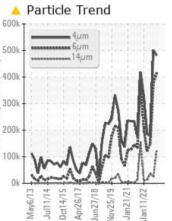
Area 8 Machine I 8-2-301-B FM #2 Trunion - Feed End Component

Journal Bearing

MOBIL MOBILGEAR SHC 460 (350 LTR)

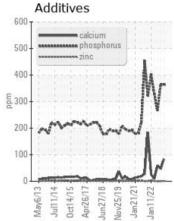
COMPONENT CONDITION SUMMARY







Viscosity @ 40°C 540 Abnormal 520 500 480 (2, 480 €) 460 55 440 420 Abnom 400 380 May6/13 Jul11/14 Oct14/75 Jun27/18 Vov25/19 Jan21/21 Jan11/22 Apr26/17



Oct14/75

Apr26/17

Vov25/19

Jan21/2

Mav6/13

RECOMMENDATION

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. 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).

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ABNORMAL
Lead	ppm	ASTM D5185(m)	>250	<u> </u>	16	9
Copper	ppm	ASTM D5185(m)	>125	A 38	17	5
Tin	ppm	ASTM D5185(m)	>80	6 576	296	1 60
Antimony	ppm	ASTM D5185(m)		• 74	A 39	1 4
Particles >6µm		ASTM D7647	>320000	<u> </u>	A 378109	148857
Oil Cleanliness		ISO 4406 (c)	>/25/24	<u> </u>	🔺 26/26/22	25/24/22

Customer Id: STMBOW Sample No.: WC0818188 Lab Number: 02560379 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 A	COMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	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).		
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.		

HISTORICAL DIAGNOSIS



16 Nov 2022 Diag: Kevin Marson

We recommend you service the filters on this component. Resample at the next service interval to monitor. Resampling 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). Tin ppm levels are severe. Antimony ppm levels are abnormal. Bearing wear is indicated. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



26 Jul 2022 Diag: Kevin Marson

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). 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. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid.



16 May 2022 Diag: Kevin Marson



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.





OIL ANALYSIS REPORT

Area 8 Machine Id 8-2-301-B FM #2 Trunion - Feed End

Journal Bearing

MOBIL MOBILGEAR SHC 460 (350 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. 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).

🛑 Wear

Tin and antimony ppm levels are severe. Copper and lead ppm levels are noted. Bearing wear is indicated.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid.



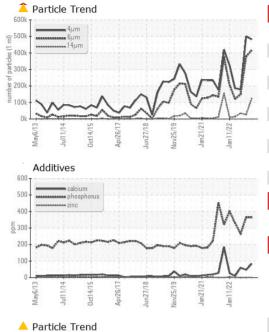
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818188	WC0751941	WC0714975
Sample Date		Client Info		17 May 2023	16 Nov 2022	26 Jul 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>60	36	19	10
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>4	3	3	1
Lead	ppm	ASTM D5185(m)	>250	A 31	16	9
Copper	ppm	ASTM D5185(m)	>125	A 38	17	5
Tin	ppm	ASTM D5185(m)	>80	5 76	2 96	▲ 160
Antimony	ppm	ASTM D5185(m)		7 4	A 39	▲ 14
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5.7	4	14	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	0	0	0
Manganese	ppm	ASTM D5185(m)	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	0.0	3	2	2
Calcium	ppm	ASTM D5185(m)	0.0	83	47	59
Phosphorus	ppm	ASTM D5185(m)	180	364	364	265
Zinc	ppm	ASTM D5185(m)	0.8	1	<1	<1
Sulfur	ppm	ASTM D5185(m)	4270	6520	4241	1378
Lithium	ppm	ASTM D5185(m)	4270	<1	<1	<1
		()			<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	10	12	4
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	5	3	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		481755	500552	179234
Particles >6µm		ASTM D7647	>320000	<u> </u>	A 378109	148857
Particles >14µm		ASTM D7647	>160000	122612	25389	34409
Particles >21µm		ASTM D7647	>40000	17041	415	4865
Particles >38µm		ASTM D7647	>10000	1	0	38
Particles >71µm		ASTM D7647	>2500	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/25/24	26/26/24	▲ 26/26/22	25/24/22
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.38	0.36	0.71	0.56
6:17:27) Rev: 1						Submitted By: ?

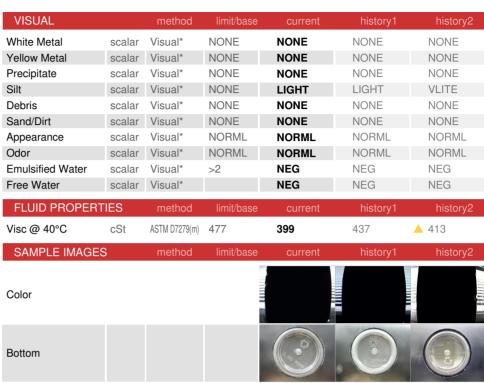


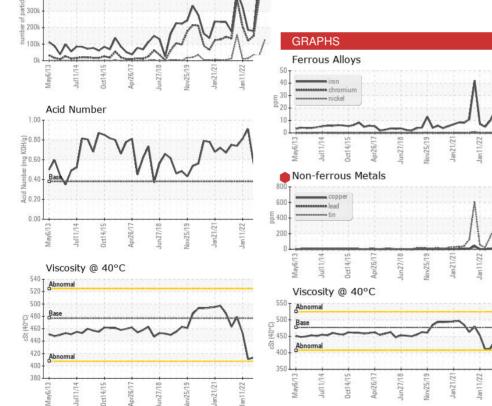
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OIL ANALYSIS REPORT







Laboratory

Sample No.

Lab Number

Unique Number

: WC0818188

Test Package : IND 2 (Additional Tests: TAN Man)

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.

: 02560379

: 5581419

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received

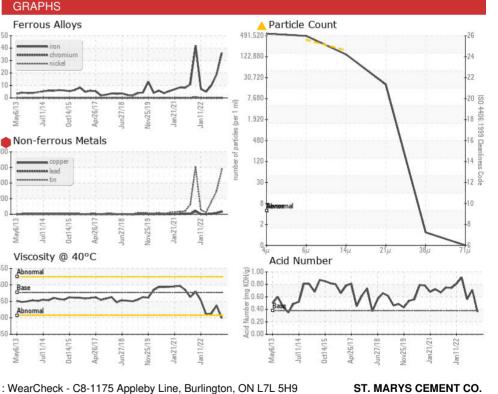
Diagnosed

Diagnostician

: 29 May 2023

: 30 May 2023

: Kevin Marson



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

Report Id: STMBOW [WCAMIS] 02560379 (Generated: 08/09/2023 16:17:27) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

Submitted By: ?