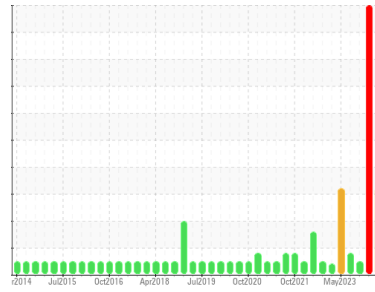




# OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area

8

Machine Id

## 8-301-MB FM#1 Trunion - Feed End

Component

Drive End Journal Bearing

Fluid

MOBIL MOBILGEAR SHC 460 (350 LTR)

### DIAGNOSIS

#### Recommendation

Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

#### Wear

Tin ppm levels are abnormal. Antimony ppm levels are 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

Viscosity of sample indicates oil is within ISO 320 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0925385	WC0902117	WC0869928
Sample Date	Client Info	04 Apr 2024	21 Feb 2024	29 Nov 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	SEVERE	NORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >2	NEG	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >60	11	▲ 174	49
Chromium	ppm ASTM D5185(m) >20	0	<1	0
Nickel	ppm ASTM D5185(m) >20	<1	3	<1
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m)	0	0	<1
Aluminum	ppm ASTM D5185(m) >4	2	▲ 14	2
Lead	ppm ASTM D5185(m) >250	10	45	3
Copper	ppm ASTM D5185(m) >125	14	▲ 69	5
Tin	ppm ASTM D5185(m) >80	▲ 144	▲ 697	50
Antimony	ppm ASTM D5185(m)	● 19	▲ 89	6
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

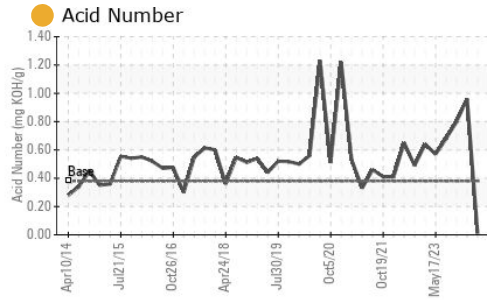
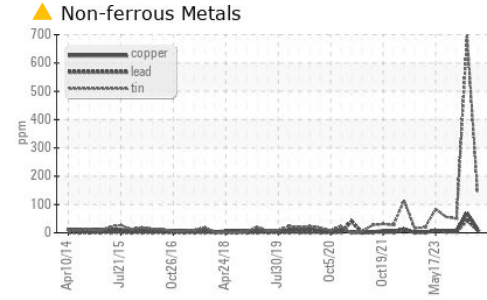
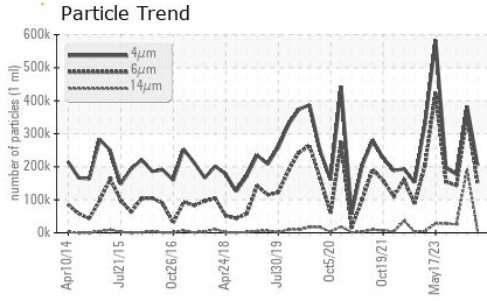
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 5.7	<1	10	16
Barium	ppm ASTM D5185(m) 0.0	0	0	0
Molybdenum	ppm ASTM D5185(m) 0.0	0	0	0
Manganese	ppm ASTM D5185(m) 0.0	0	<1	0
Magnesium	ppm ASTM D5185(m) 0.0	1	9	1
Calcium	ppm ASTM D5185(m) 0.0	52	● 203	41
Phosphorus	ppm ASTM D5185(m) 180	184	371	370
Zinc	ppm ASTM D5185(m) 0.8	<1	1	<1
Sulfur	ppm ASTM D5185(m) 4270	● 2288	4338	4416
Lithium	ppm ASTM D5185(m)	<1	<1	<1

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	7	40	9
Sodium	ppm ASTM D5185(m)	<1	1	<1
Potassium	ppm ASTM D5185(m) >20	6	11	2

### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	205623	382691	177031
Particles >6µm	ASTM D7647 >320000	151650	● 353980	142602
Particles >14µm	ASTM D7647 >160000	6698	● 192229	25919
Particles >21µm	ASTM D7647 >40000	189	● 79870	2178
Particles >38µm	ASTM D7647 >10000	3	468	8
Particles >71µm	ASTM D7647 >2500	2	0	5
Oil Cleanliness	ISO 4406 (c) >--/25/24	25/24/20	● 26/26/25	25/24/22

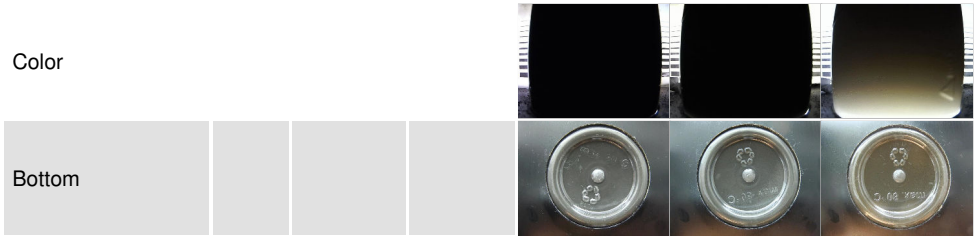


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.38	0.01	0.96	0.80

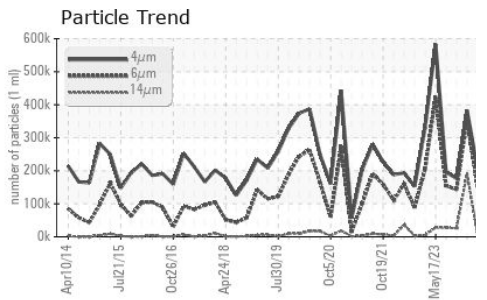
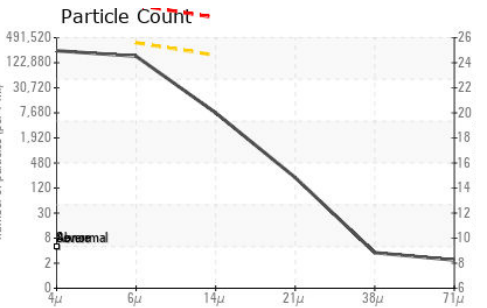
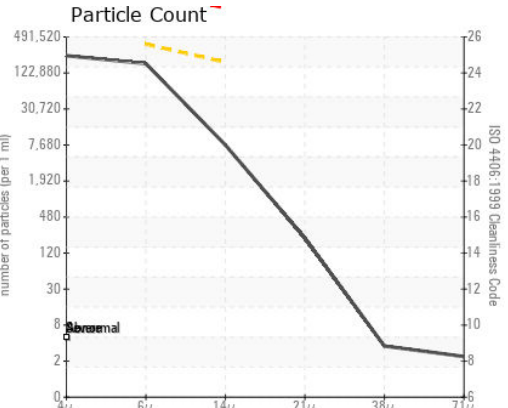
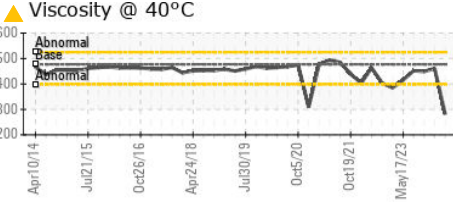
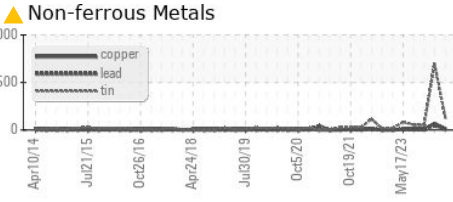
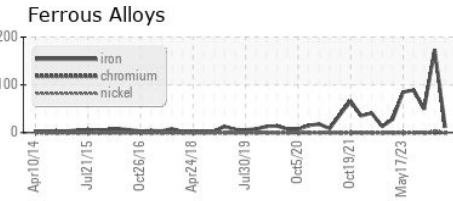
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	477	281	461	449

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925385  
**Lab Number** : 02629344  
**Unique Number** : 5762476  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Received** : 16 Apr 2024  
**Tested** : 18 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Kevin Marson

**ST. MARYS CEMENT CO.**  
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 CA L1C 7B5  
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 lou.traiforos@vcimentos.com  
 T: (905)440-5874  
 F: (905)623-4695

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.