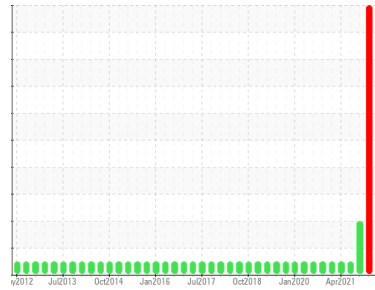




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



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

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0655809	WC	WC0627342
Sample Date	Client Info	11 Jan 2022	17 Nov 2021	19 Oct 2021
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	SEVERE	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>60	7	▲ 42	11
Chromium	ppm	ASTM D5185(m)		0	<1	0
Nickel	ppm	ASTM D5185(m)		<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>4	2	● 11	1
Lead	ppm	ASTM D5185(m)	>250	3	35	7
Copper	ppm	ASTM D5185(m)	>125	4	44	8
Tin	ppm	ASTM D5185(m)	>80	55	● 609	▲ 124
Antimony	ppm	ASTM D5185(m)		7	▲ 83	▲ 17
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	24	16	11
Barium	ppm	ASTM D5185(m)	0.0	<1	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	7	1
Calcium	ppm	ASTM D5185(m)	0.0	26	▲ 185	28
Phosphorus	ppm	ASTM D5185(m)	180	401	320	▲ 453
Zinc	ppm	ASTM D5185(m)	0.8	2	1	<1
Sulfur	ppm	ASTM D5185(m)	4270	4465	4466	▲ 5033
Lithium	ppm	ASTM D5185(m)		0	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>50	6	36	7
Sodium	ppm	ASTM D5185(m)		<1	2	<1
Potassium	ppm	ASTM D5185(m)	>20	3	12	2

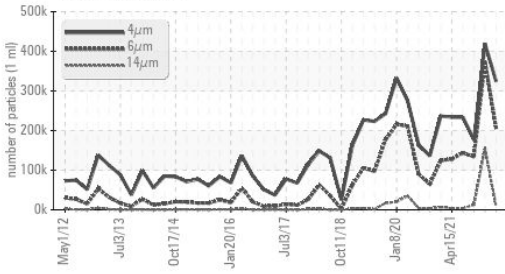
FLUID CLEANLINESS

method	limit/base	current	history1	history2		
Particles >4µm	ASTM D7647			324383	419095	176114
Particles >6µm	ASTM D7647	>320000		206375	▲ 373468	134046
Particles >14µm	ASTM D7647	>160000		8906	156764	12309
Particles >21µm	ASTM D7647	>40000		239	37843	202
Particles >38µm	ASTM D7647	>10000		0	35	0
Particles >71µm	ASTM D7647	>2500		0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/25/24		26/25/20	▲ 26/26/24	25/24/21

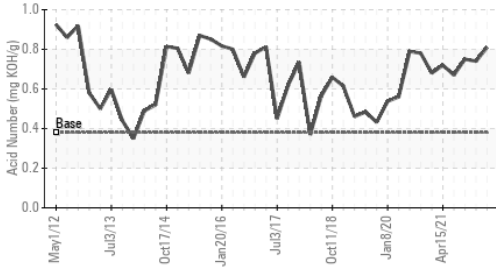
FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974*	0.38	0.81	0.74	0.75

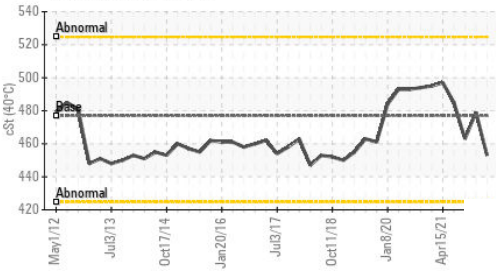
Particle Trend



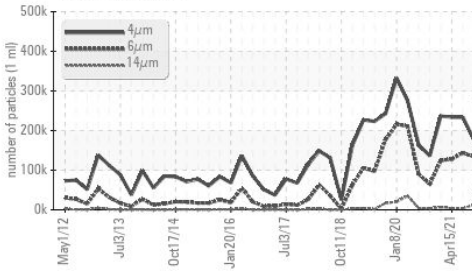
Acid Number



Viscosity @ 40°C



Particle Trend

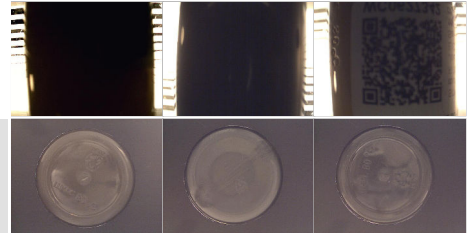


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	LIGHT	LIGHT
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	LIGHT	NONE
Appearance	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	479	463

SAMPLE IMAGES	method	limit/base	current	history1	history2
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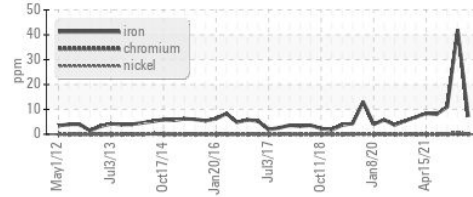
Color



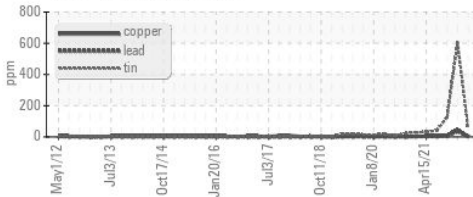
Bottom

GRAPHS

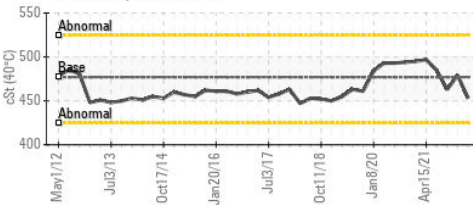
Ferrous Alloys



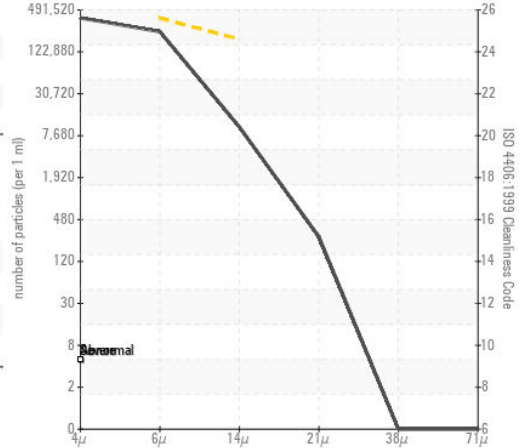
Non-ferrous Metals



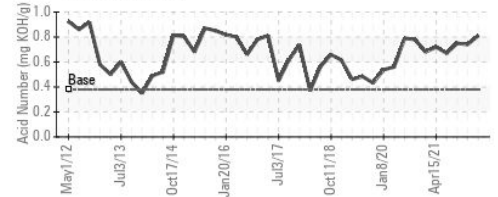
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0655809 **Received** : 17 Feb 2022
Lab Number : 02472871 **Diagnosed** : 18 Feb 2022
Unique Number : 5357794 **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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