



OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



Area

8

Machine Id

8-3-3012 FM #3 Trunion - Discharge 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. 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

Additive levels indicate the addition of a different brand, or type of oil. 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		WC0925380	WC0902110	WC0869923
Sample Date	Client Info		04 Apr 2024	21 Feb 2024	29 Nov 2023
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			ATTENTION	ABNORMAL	ABNORMAL

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	14	19	32
Chromium	ppm	ASTM D5185(m) >20	0	0	0
Nickel	ppm	ASTM D5185(m) >20	0	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	<1
Aluminum	ppm	ASTM D5185(m) >4	2	2	3
Lead	ppm	ASTM D5185(m) >250	39	48	45
Copper	ppm	ASTM D5185(m) >125	3	2	3
Tin	ppm	ASTM D5185(m) >80	71	▲ 85	▲ 87
Antimony	ppm	ASTM D5185(m)	15	▲ 20	▲ 20
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5.7	2	1	11
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	0	0	0
Magnesium	ppm	ASTM D5185(m) 0.0	2	2	2
Calcium	ppm	ASTM D5185(m) 0.0	40	36	57
Phosphorus	ppm	ASTM D5185(m) 180	386	390	300
Zinc	ppm	ASTM D5185(m) 0.8	1	1	4
Sulfur	ppm	ASTM D5185(m) 4270	● 2094	● 2016	6340
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

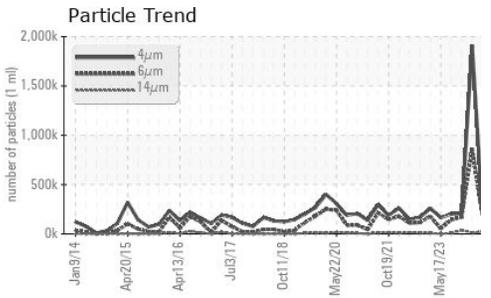
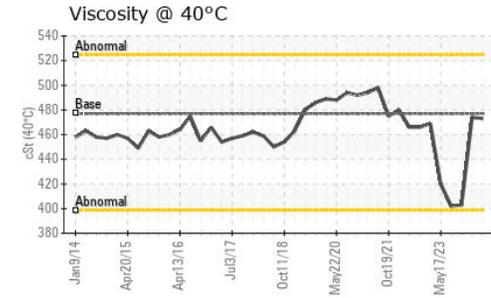
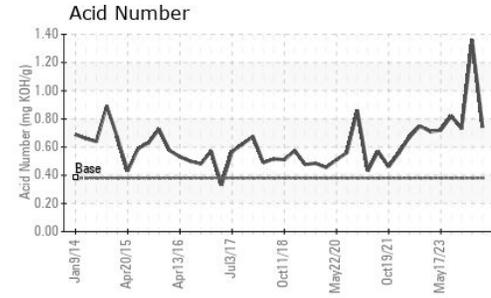
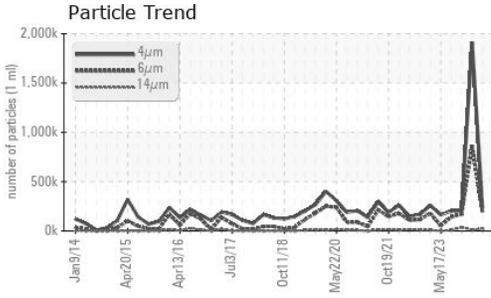
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	11	18	9
Sodium	ppm	ASTM D5185(m)	<1	<1	<1
Potassium	ppm	ASTM D5185(m) >20	2	3	4

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		227345	1912562	204390
Particles >6µm	ASTM D7647	>320000	179143	▲ 867915	170309
Particles >14µm	ASTM D7647	>160000	21936	12535	34833
Particles >21µm	ASTM D7647	>40000	805	307	2063
Particles >38µm	ASTM D7647	>10000	20	0	1
Particles >71µm	ASTM D7647	>2500	14	0	0
Oil Cleanliness	ISO 4406 (c)	>--/25/24	25/25/22	▲ 28/27/21	25/25/22



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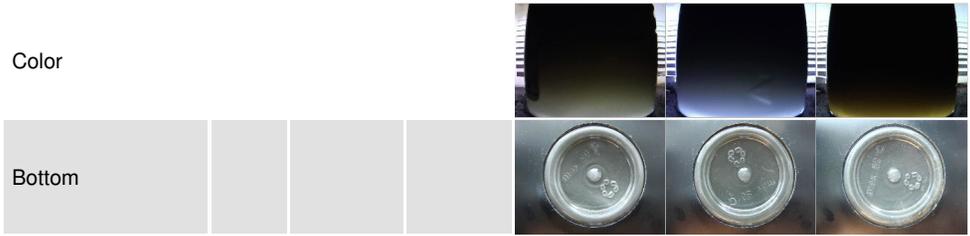


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.38	0.74	1.36	0.73

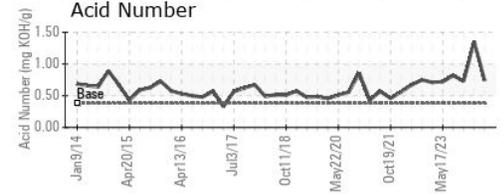
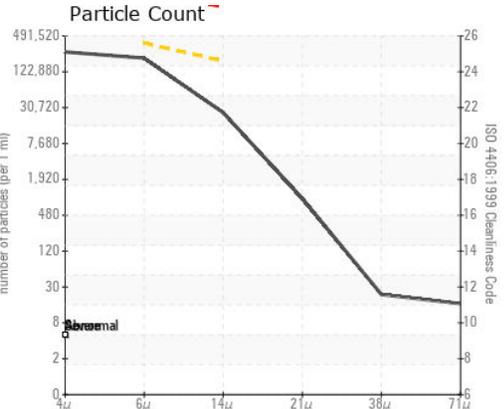
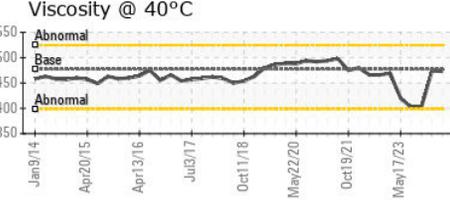
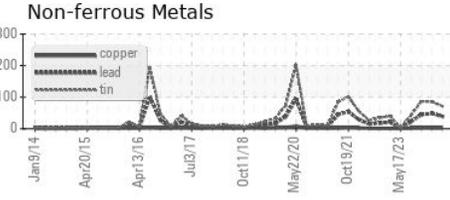
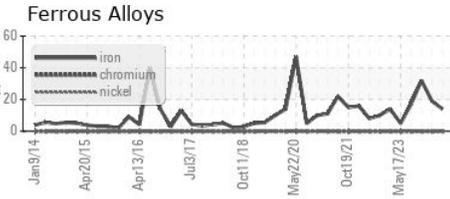
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
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	473	474	403

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. : WC0925380 Received : 16 Apr 2024
 Lab Number : 02629343 Tested : 17 Apr 2024
 Unique Number : 5762475 Diagnosed : 17 Apr 2024 - Kevin Marson
 Test Package : IND 2 (Additional Tests: TAN Man)

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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.