



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
PMC 38
 Component
Circulating Oil
 Fluid
MOBIL MOBILGEAR SHC 320 (55 GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation.

WEAR

All component wear rates are normal.

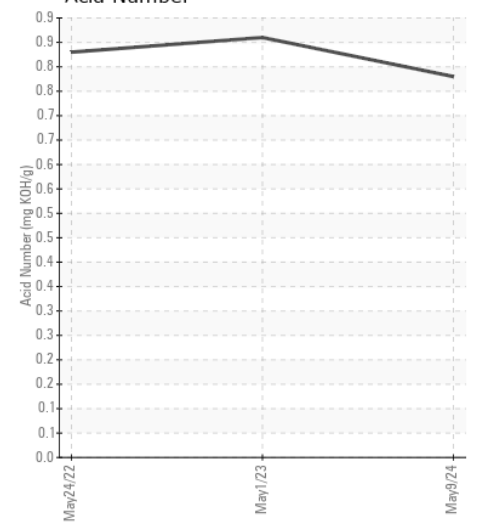
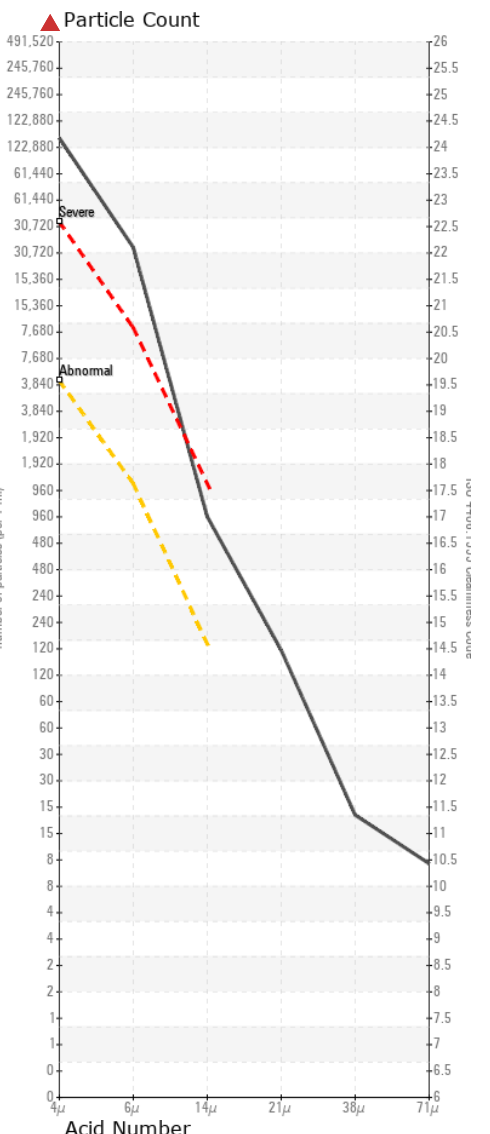
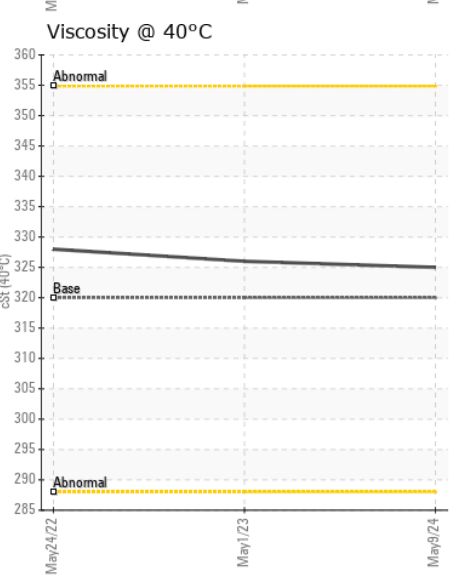
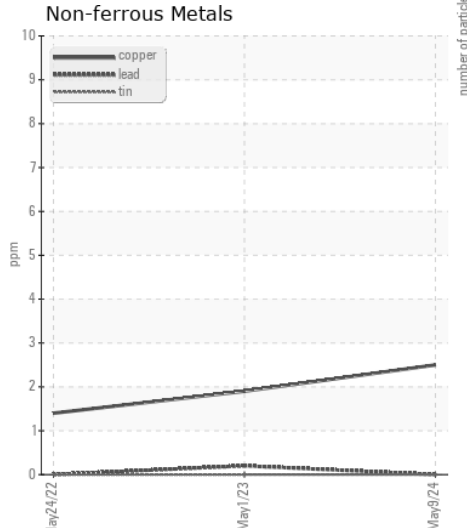
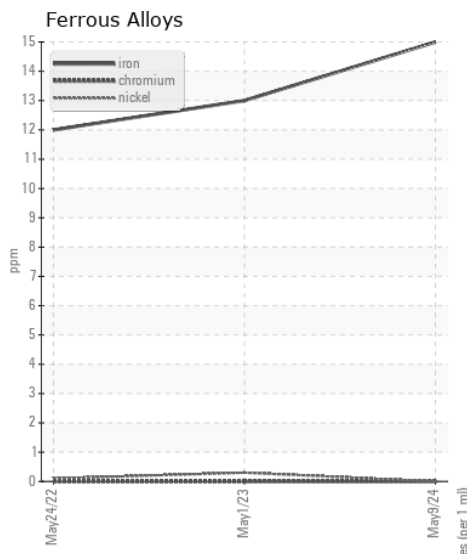
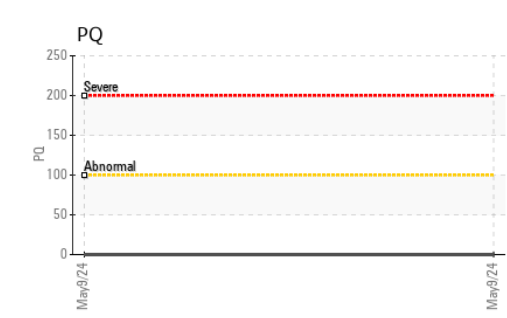
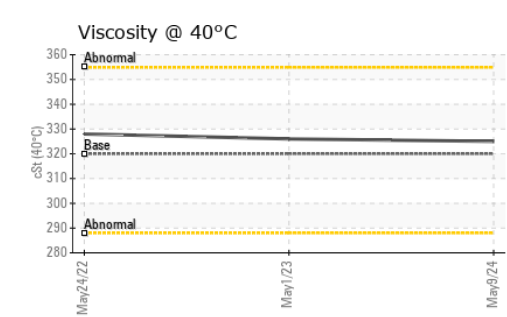
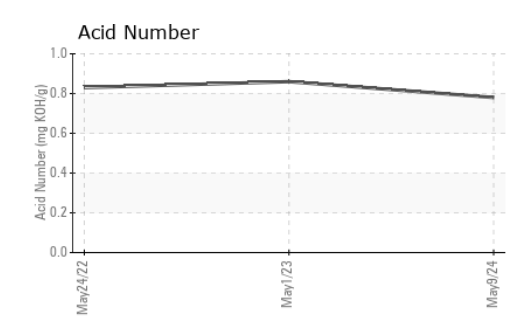
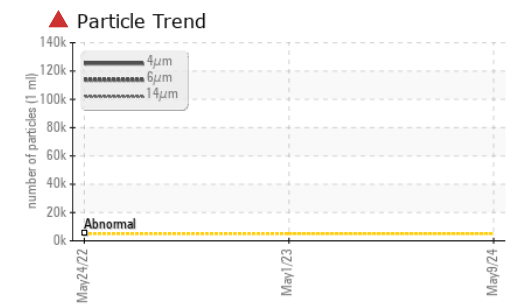
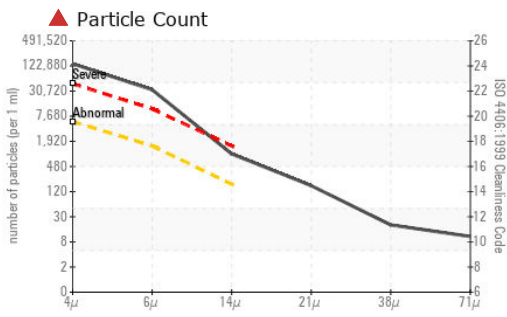
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0838830	WC0721685	WC956928
Sample Date		Client Info		09 May 2024	01 May 2023	24 May 2022
Machine Age	hrs	Client Info		6000	6000	6000
Oil Age	hrs	Client Info		6000	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)		15	13	12
Chromium	ppm	ASTM D5185(m)		0	0	0
Nickel	ppm	ASTM D5185(m)		0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)		1	<1	<1
Lead	ppm	ASTM D5185(m)		0	<1	0
Copper	ppm	ASTM D5185(m)		2	2	1
Tin	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)		181	99	41
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 119772	---	---
Particles >6µm		ASTM D7647	>1300	▲ 28616	---	---
Particles >14µm		ASTM D7647	>160	▲ 844	---	---
Particles >21µm		ASTM D7647	>40	▲ 147	---	---
Particles >38µm		ASTM D7647	>10	● 17	---	---
Particles >71µm		ASTM D7647	>3	▲ 9	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/17	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*		NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)		<1	<1	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		<1	0	0
Calcium	ppm	ASTM D5185(m)		1	0	2
Phosphorus	ppm	ASTM D5185(m)		383	418	434
Zinc	ppm	ASTM D5185(m)		5	4	4
Sulfur	ppm	ASTM D5185(m)		1973	1885	1913
Acid Number (AN)	mg KOH/g	ASTM D974*		0.78	0.86	0.83
Visc @ 40°C	cSt	ASTM D7279(m)	320	325	326	328



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0838830 **Received** : 13 May 2024
Lab Number : 02635046 **Tested** : 21 May 2024
Unique Number : 5776199 **Diagnosed** : 21 May 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: PQ, PRTCOUNT)

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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