



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PMC 35**  
 Component  
**Gear Lube System**  
 Fluid  
**MOBIL MOBILGEAR SHC 320 (55 GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0838831	WC0721684	---
Sample Date		Client Info		09 May 2024	01 May 2023	---
Machine Age	hrs	Client Info		6000	6000	---
Oil Age	hrs	Client Info		6000	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Chngd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>150	10	9	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)	>10	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	---
Lead	ppm	ASTM D5185(m)	>100	0	<1	---
Copper	ppm	ASTM D5185(m)	>50	3	3	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

## CONTAMINATION

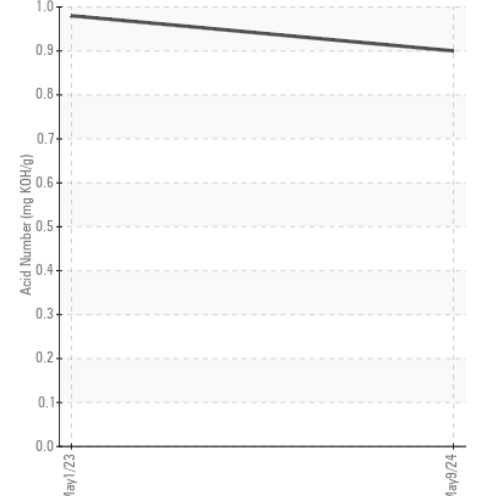
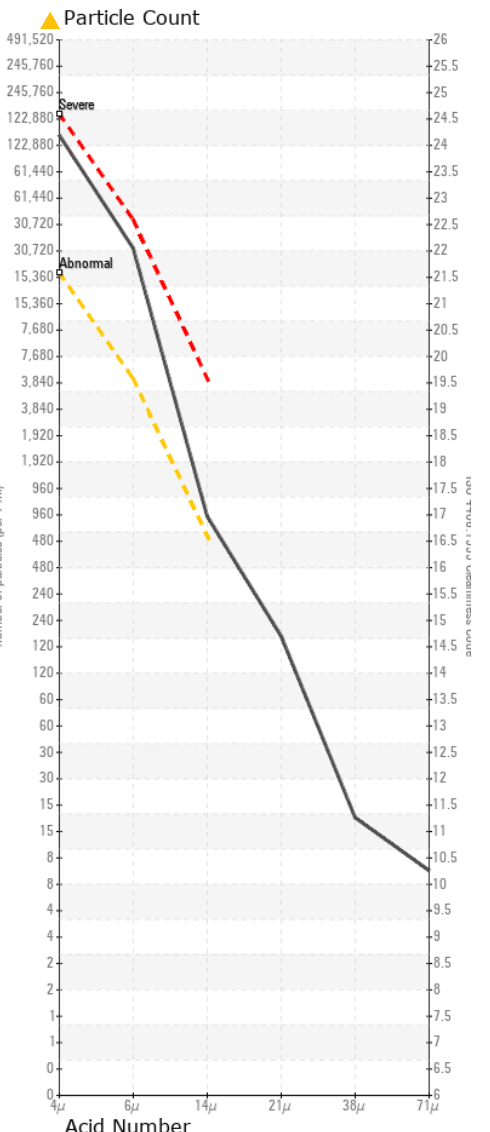
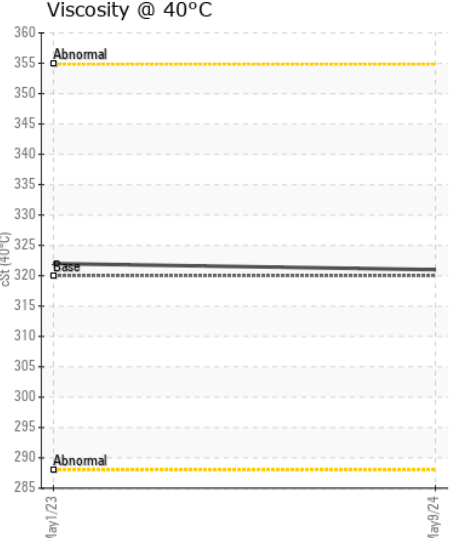
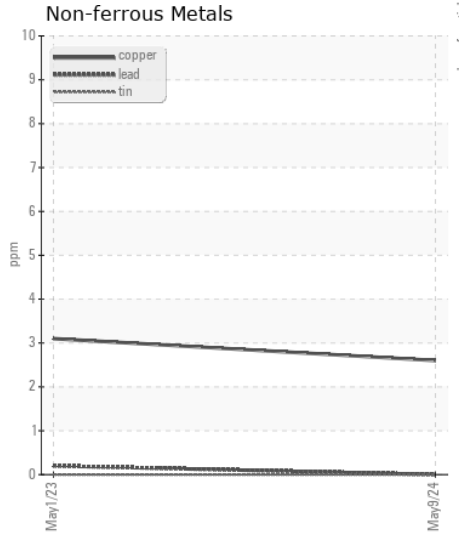
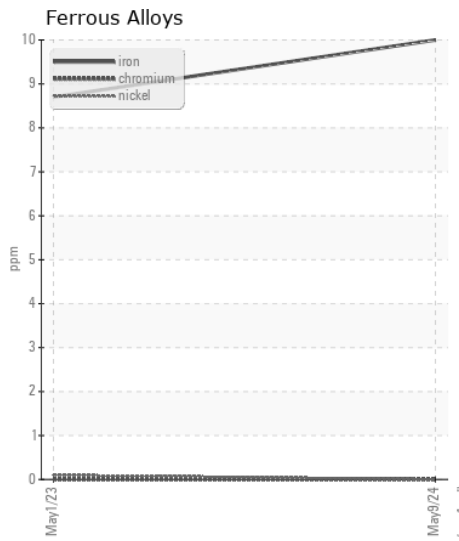
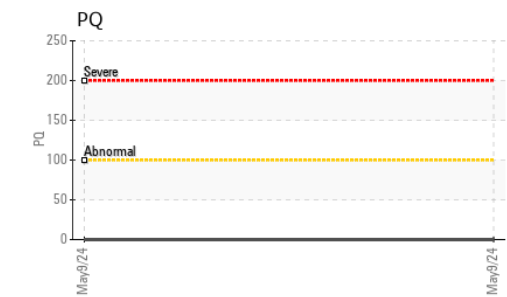
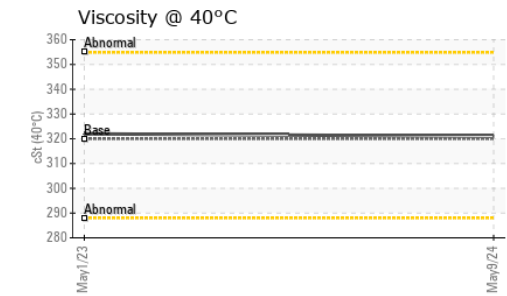
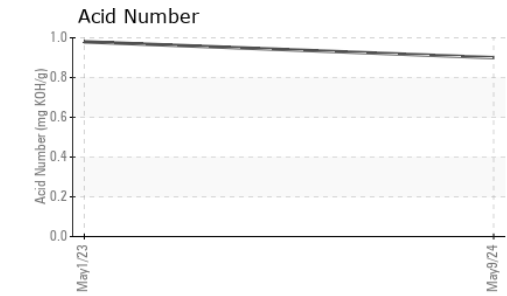
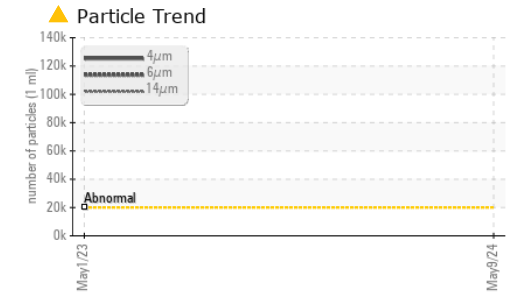
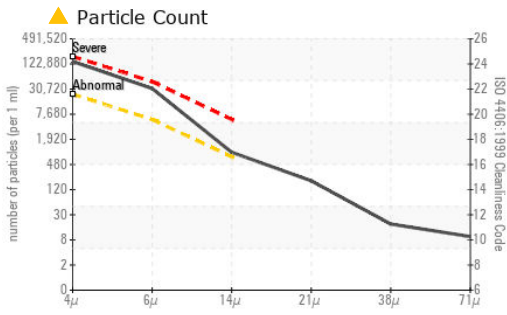
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>50	83	71	---
Potassium	ppm	ASTM D5185(m)	>20	0	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	▲ 121033	---	---
Particles >6µm		ASTM D7647	>5000	▲ 27490	---	---
Particles >14µm		ASTM D7647	>640	● 825	---	---
Particles >21µm		ASTM D7647	>160	172	---	---
Particles >38µm		ASTM D7647	>40	16	---	---
Particles >71µm		ASTM D7647	>10	8	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/22/17	---	---
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*	>0.1	NEG	NEG	---

## 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.

Sodium	ppm	ASTM D5185(m)		5	4	---
Boron	ppm	ASTM D5185(m)		<1	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		0	0	---
Calcium	ppm	ASTM D5185(m)		5	4	---
Phosphorus	ppm	ASTM D5185(m)		412	453	---
Zinc	ppm	ASTM D5185(m)		2	2	---
Sulfur	ppm	ASTM D5185(m)		1879	1864	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.90	0.98	---
Visc @ 40°C	cSt	ASTM D7279(m)	320	321	322	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0838831 **Received** : 13 May 2024  
**Lab Number** : 02635047 **Tested** : 17 May 2024  
**Unique Number** : 5776200 **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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