



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PMC 37**  
 Component  
**Gear Lube System**  
 Fluid  
**MOBIL MOBILGEAR SHC 320 (208 LTR)**

## RECOMMENDATION

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

## WEAR

All component wear rates are normal.

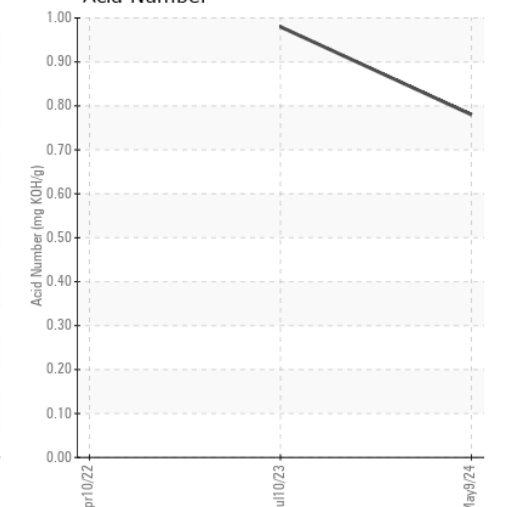
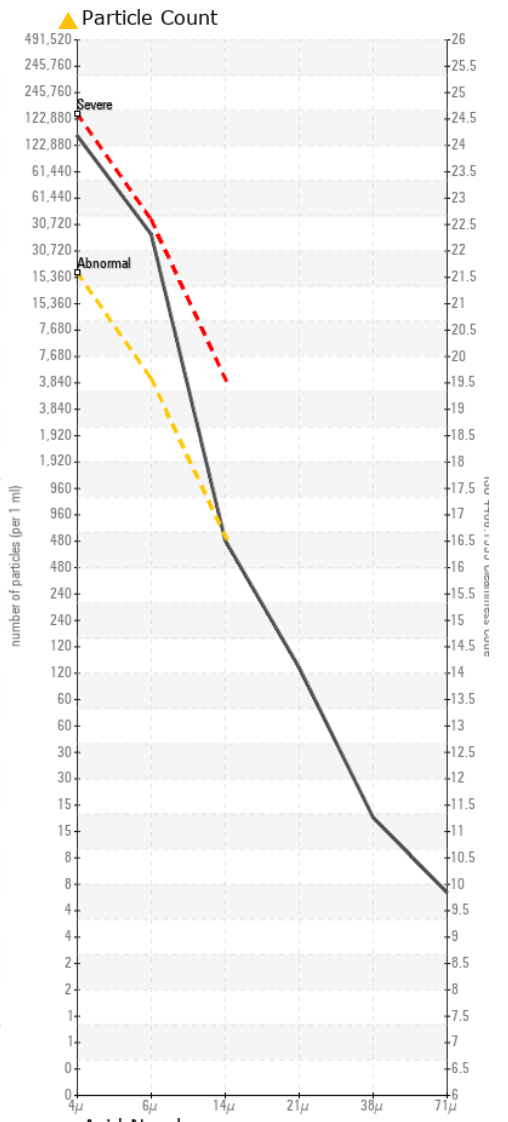
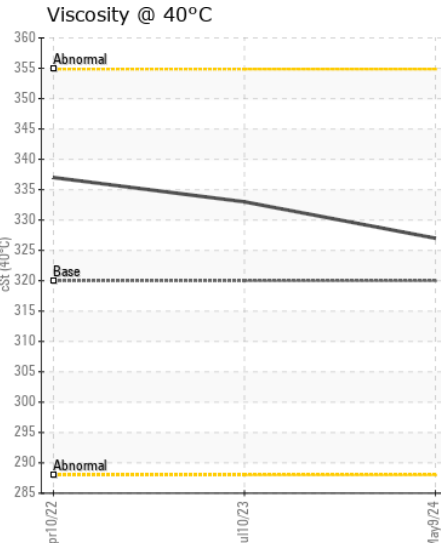
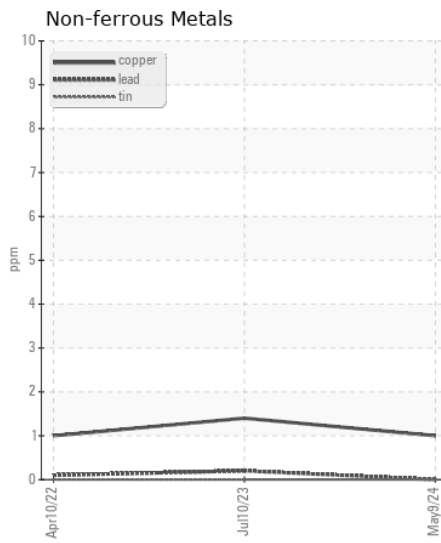
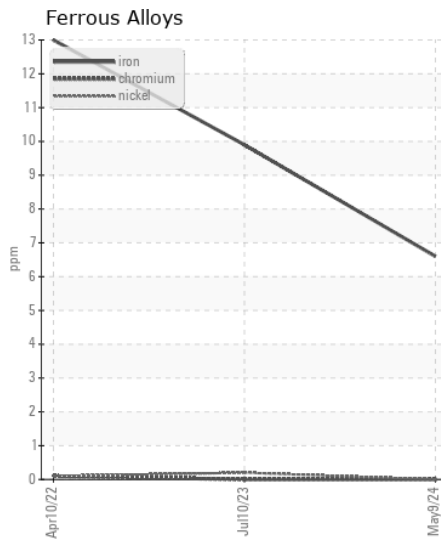
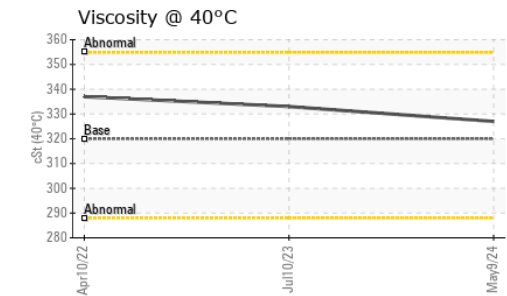
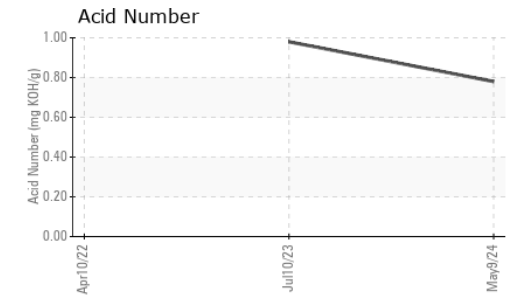
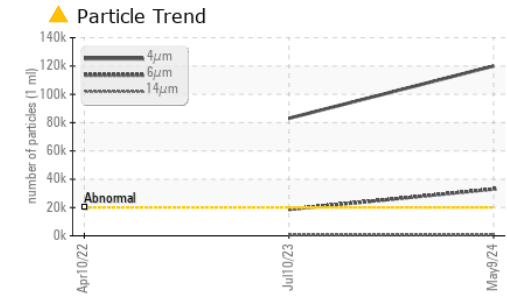
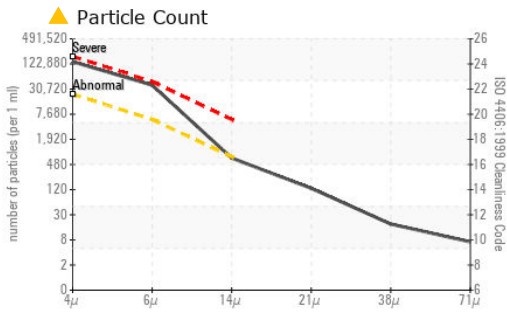
## CONTAMINATION

There is a moderate amount of silt (particulates < 14 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		<b>WC0838829</b>	WC0721687	WC956927
Sample Date		Client Info		<b>09 May 2024</b>	10 Jul 2023	10 Apr 2022
Machine Age	hrs	Client Info		<b>6000</b>	6000	0
Oil Age	hrs	Client Info		<b>6000</b>	6000	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>150	<b>7</b>	10	13
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	<b>20</b>	83	188
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>▲ 120048</b>	▲ 83035	---
Particles >6µm		ASTM D7647	>5000	<b>▲ 33045</b>	▲ 18661	---
Particles >14µm		ASTM D7647	>640	<b>602</b>	▲ 666	---
Particles >21µm		ASTM D7647	>160	<b>114</b>	▲ 166	---
Particles >38µm		ASTM D7647	>40	<b>16</b>	▲ 5	---
Particles >71µm		ASTM D7647	>10	<b>6</b>	▲ 2	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 24/22/16</b>	▲ 24/21/17	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>2</b>	3	2
Boron	ppm	ASTM D5185(m)		<b>1</b>	<1	3
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)		<b>1</b>	4	4
Phosphorus	ppm	ASTM D5185(m)		<b>427</b>	443	444
Zinc	ppm	ASTM D5185(m)		<b>2</b>	3	<1
Sulfur	ppm	ASTM D5185(m)		<b>2200</b>	1714	2206
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.78</b>	0.98	---
Visc @ 40°C	cSt	ASTM D7279(m)	320	<b>327</b>	333	337



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0838829 **Received** : 13 May 2024  
**Lab Number** : 02635045 **Tested** : 14 May 2024  
**Unique Number** : 5776198 **Diagnosed** : 14 May 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: 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.

**DART CANADA**  
 2121 MARKHAM RD  
 SCARBOROUGH, ON  
 CA M1B 2W3  
 Contact: Eric Spriel  
 eric.spriel@dartcanada.ca  
 T: (416)332-3459  
 F: