



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PMC36**  
 Component  
**Gearbox**  
 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.

## WEAR

All component wear rates are normal.

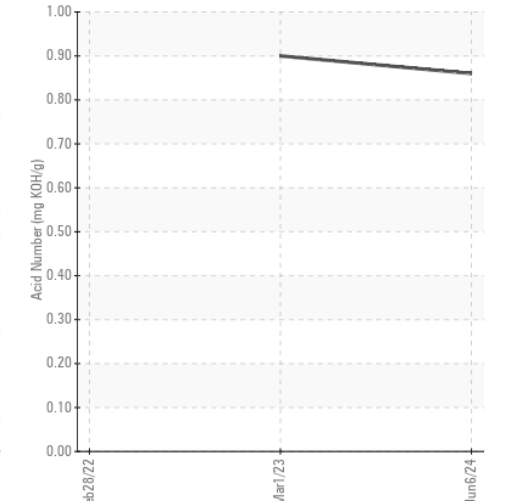
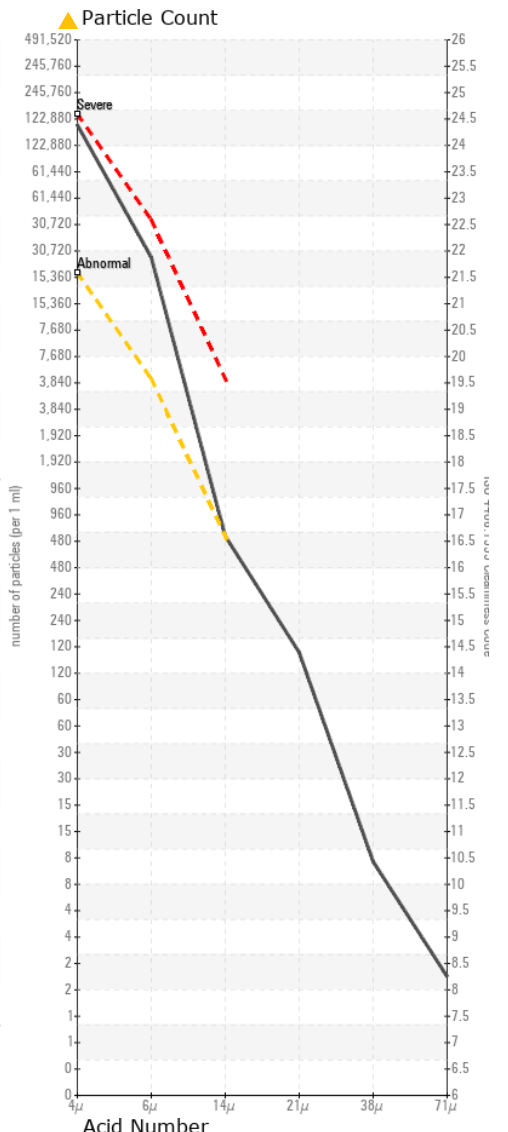
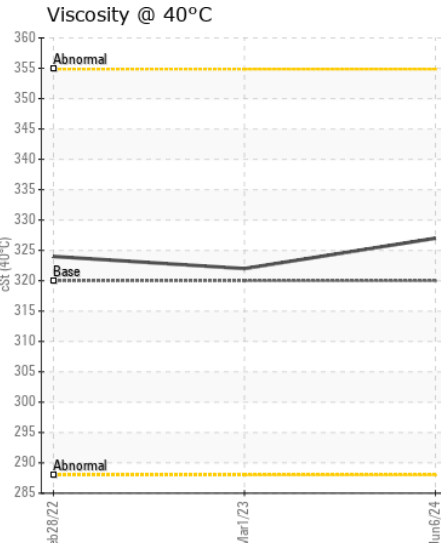
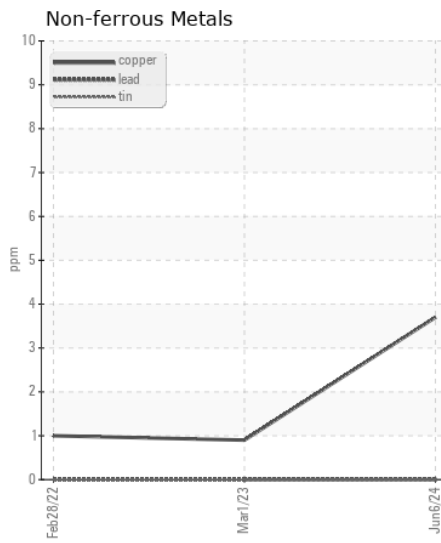
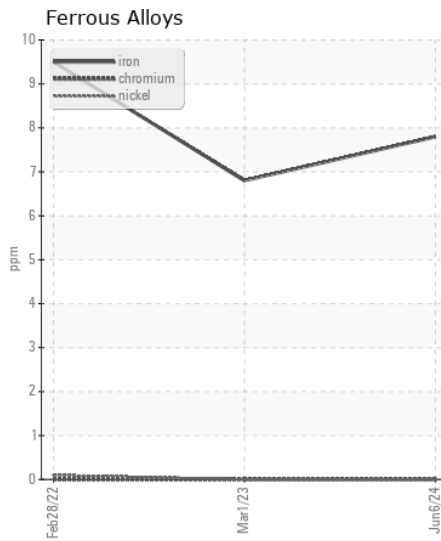
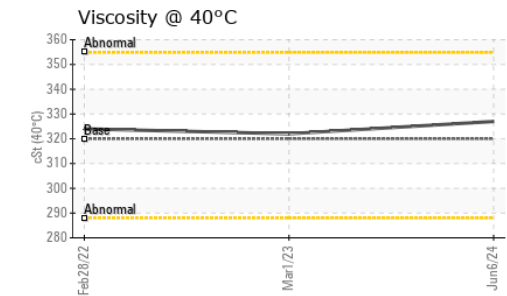
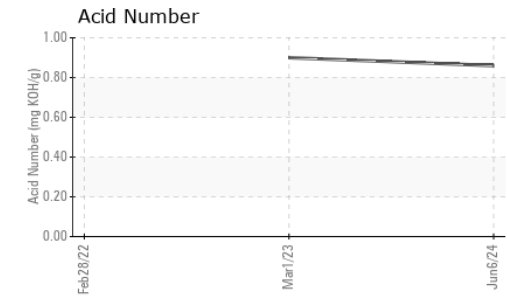
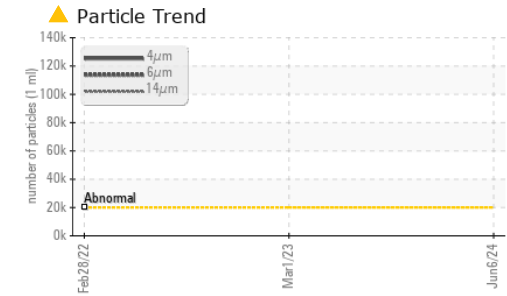
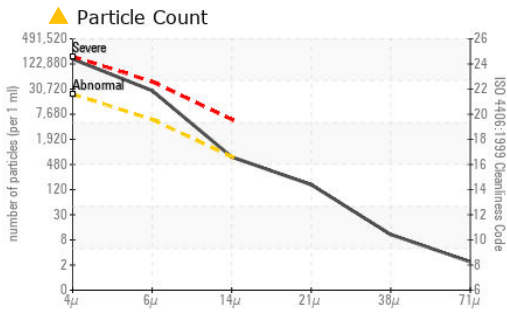
## CONTAMINATION

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>WC0838828</b>	WC0721683	WC956926
Sample Date		Client Info		<b>06 Jun 2024</b>	01 Mar 2023	28 Feb 2022
Machine Age	hrs	Client Info		<b>6000</b>	0	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>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	SEVERE	SEVERE
Iron	ppm	ASTM D5185(m)	>200	<b>8</b>	7	10
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<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)	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>200	<b>4</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	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	<b>45</b>	▲ 345	▲ 144
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ <b>138524</b>	---	---
Particles >6µm		ASTM D7647	>5000	▲ <b>24503</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>638</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>139</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>9</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>2</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ <b>24/22/16</b>	---	---
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>	VLITE	VLITE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
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>0</b>	0	0
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	5
Phosphorus	ppm	ASTM D5185(m)		<b>409</b>	396	454
Zinc	ppm	ASTM D5185(m)		<b>2</b>	1	1
Sulfur	ppm	ASTM D5185(m)		<b>1656</b>	1600	1720
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.86</b>	0.90	---
Visc @ 40°C	cSt	ASTM D7279(m)	320	<b>327</b>	322	324



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0838828 **Received** : 10 Jun 2024  
**Lab Number** : 02640866 **Tested** : 11 Jun 2024  
**Unique Number** : 5798405 **Diagnosed** : 11 Jun 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.

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