



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**IZ/6WM**  
 Component  
**Gearbox**  
 Fluid  
**MOBIL MOBILGEAR SHC XMP 320 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0807461</b>	WC0807369	WC0695199
Sample Date		Client Info		<b>01 Dec 2023</b>	01 Jun 2023	24 Jan 2023
Machine Age	mths	Client Info		<b>0</b>	0	115780
Oil Age	mths	Client Info		<b>75</b>	69	0
Filter Age	mths	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>16</b>	17	21
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>200	<b>6</b>	4	<1
Tin	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<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

## CONTAMINATION

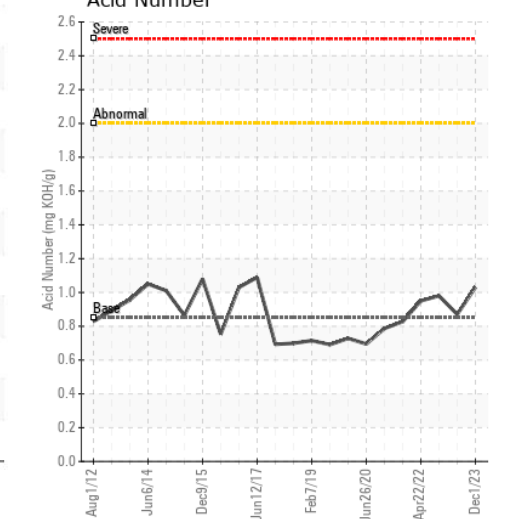
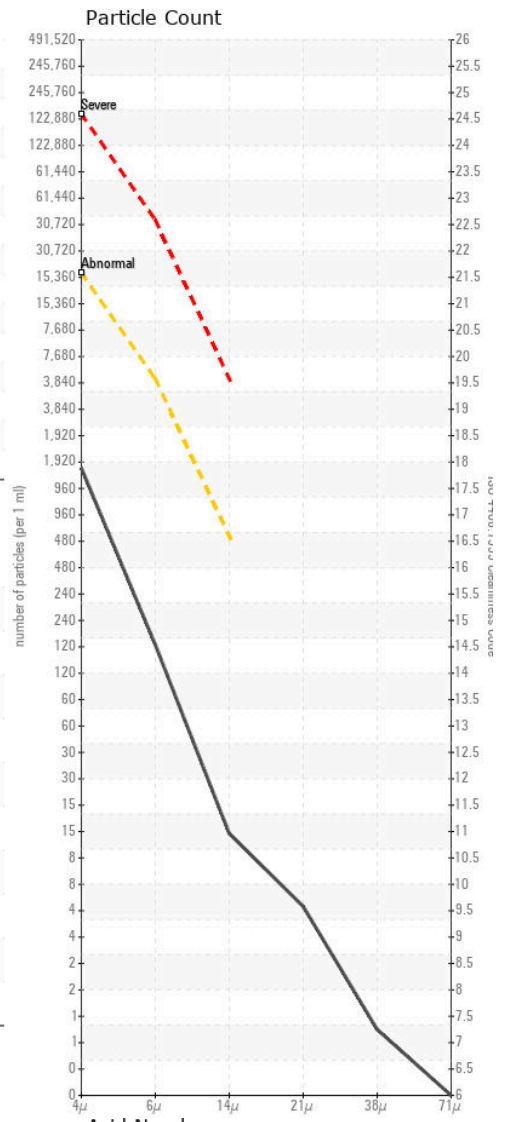
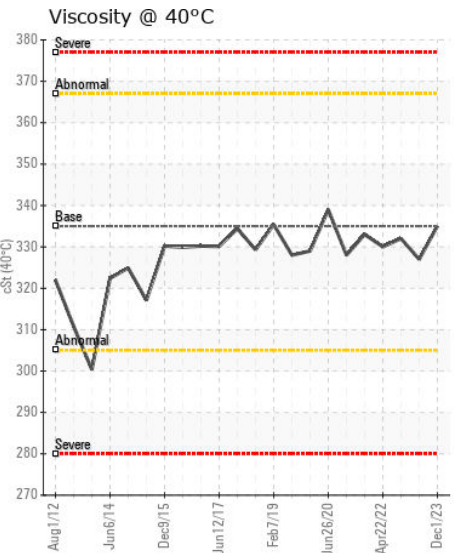
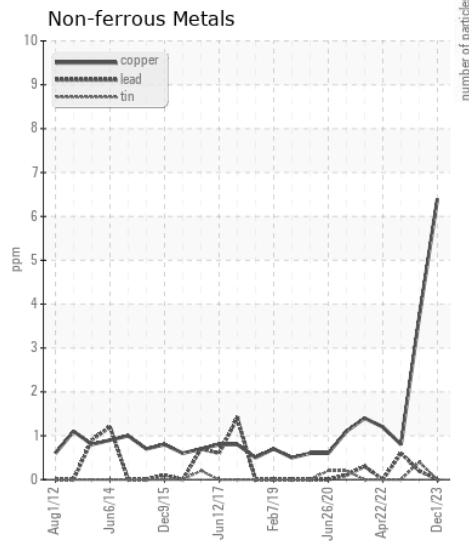
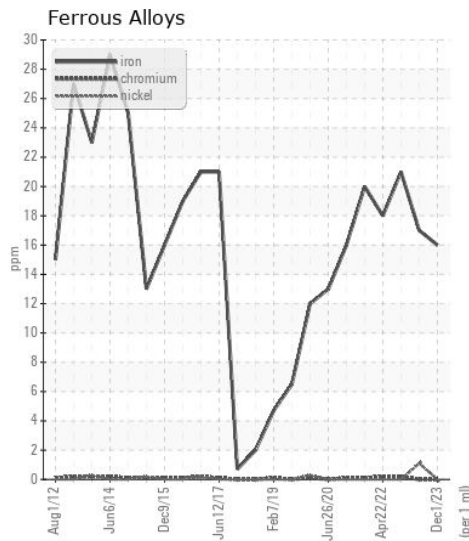
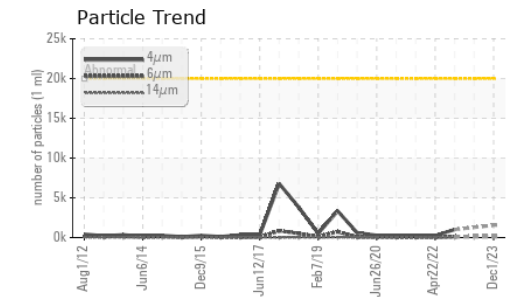
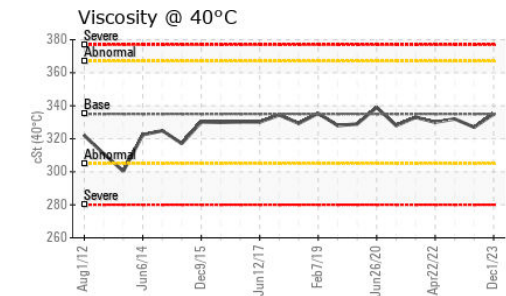
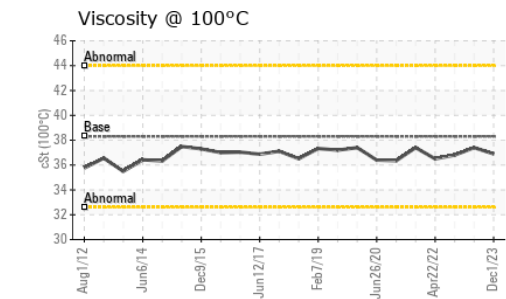
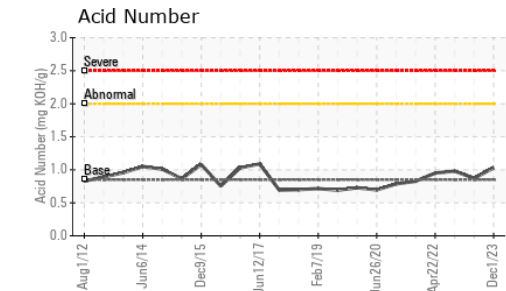
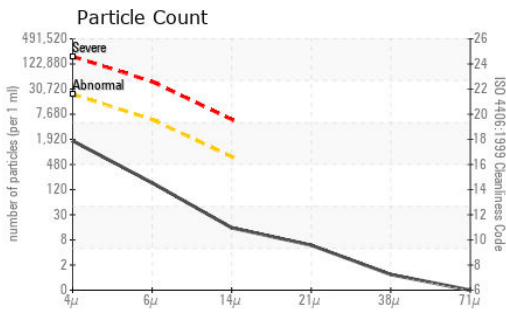
There is no indication of any contamination in the component. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	<b>8</b>	8	11
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	<1
Water	%	ASTM D6304	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>1554</b>	---	1014
Particles >6µm		ASTM D7647	>5000	<b>154</b>	---	144
Particles >14µm		ASTM D7647	>640	<b>13</b>	---	8
Particles >21µm		ASTM D7647	>160	<b>5</b>	---	2
Particles >38µm		ASTM D7647	>40	<b>1</b>	---	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>18/14/11</b>	---	17/14/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	1	<1
Calcium	ppm	ASTM D5185m	0	<b>0</b>	1	1
Phosphorus	ppm	ASTM D5185m	485	<b>351</b>	371	399
Zinc	ppm	ASTM D5185m	0	<b>33</b>	17	14
Sulfur	ppm	ASTM D5185m		<b>4942</b>	4525	4260
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>1.03</b>	0.87	0.98
Visc @ 40°C	cSt	ASTM D445	335	<b>335</b>	327	332
Visc @ 100°C	cSt	ASTM D445	38.3	<b>36.9</b>	37.4	36.8
Viscosity Index (VI)	Scale	ASTM D2270	164	<b>157</b>	163	158



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0807461 **Received** : 24 Apr 2024  
**Lab Number** : 06159108 **Tested** : 26 Apr 2024  
**Unique Number** : 10994531 **Diagnosed** : 26 Apr 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

JPHYTEC

JP  
 Contact: Service

T:  
 F: