



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**IZ/14WM**  
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>WC0807519</b>	WC0807377	WC0695195
Sample Date		Client Info		<b>26 Jan 2024</b>	29 Jun 2023	15 Feb 2023
Machine Age	mths	Client Info		<b>0</b>	0	203454
Oil Age	mths	Client Info		<b>103</b>	107	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>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>27</b>	20	32
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>&lt;1</b>	<1	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

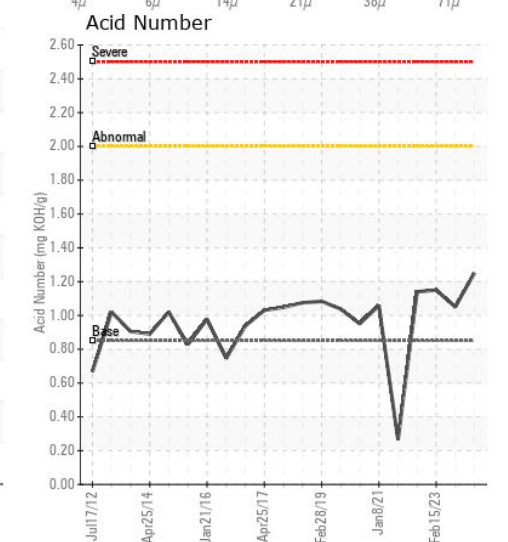
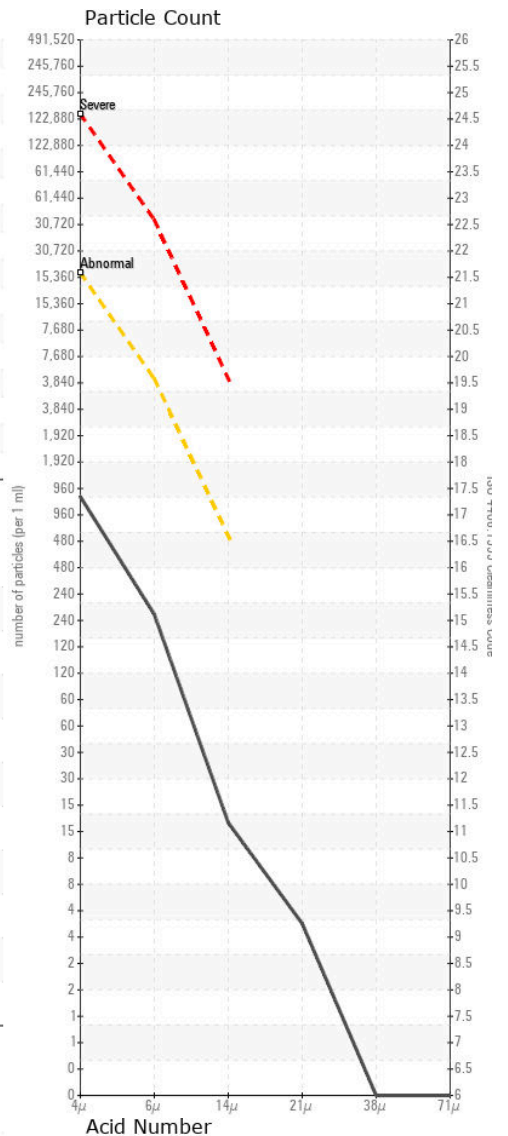
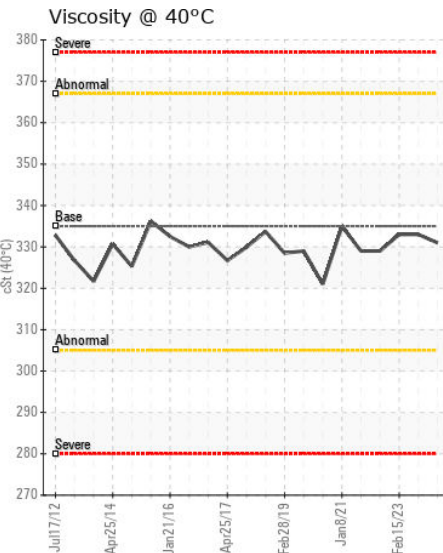
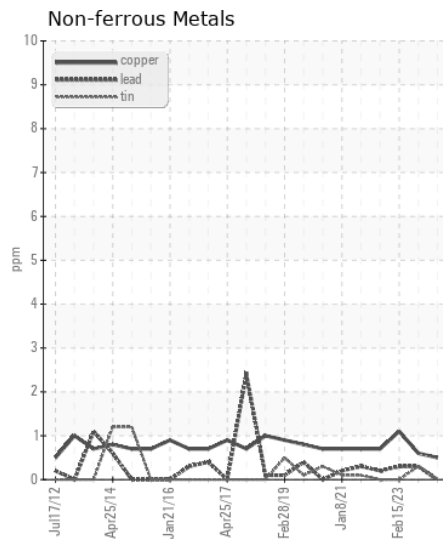
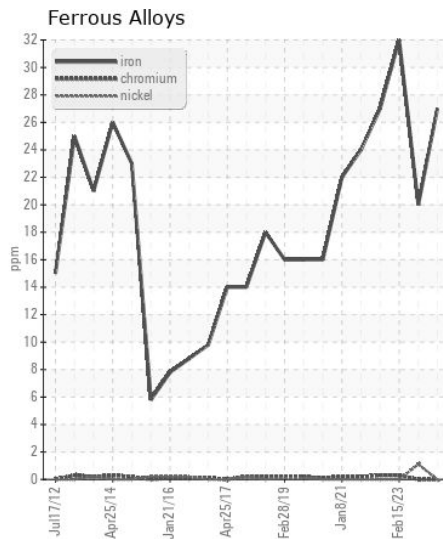
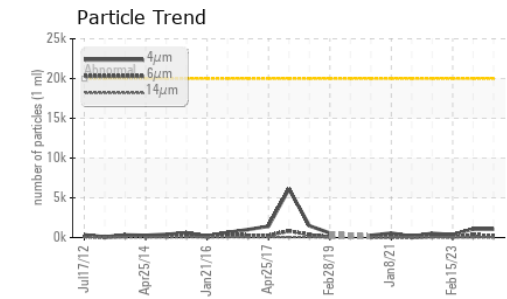
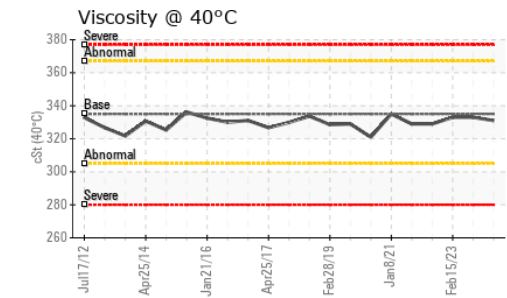
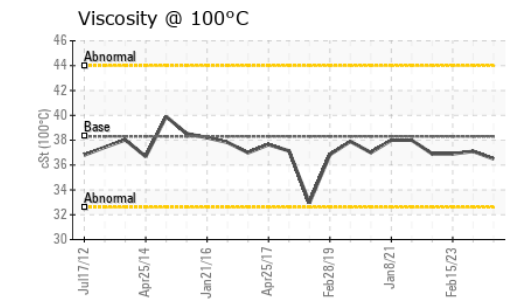
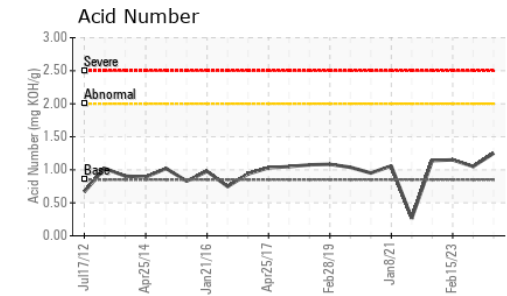
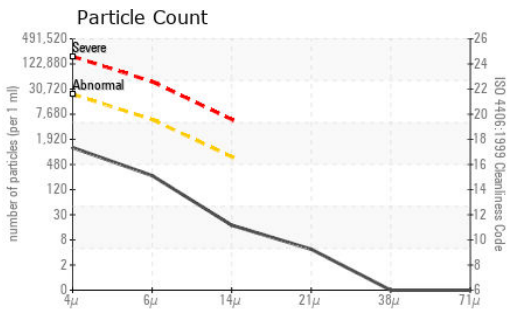
There is no indication of any contamination in the component. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	5	7
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>1068</b>	1071	362
Particles >6µm		ASTM D7647	>5000	<b>229</b>	343	88
Particles >14µm		ASTM D7647	>640	<b>15</b>	25	6
Particles >21µm		ASTM D7647	>160	<b>4</b>	6	2
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>17/15/11</b>	17/16/12	16/14/10
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	>0.2	<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>	<1	<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	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	2	<1
Calcium	ppm	ASTM D5185m	0	<b>0</b>	1	0
Phosphorus	ppm	ASTM D5185m	485	<b>448</b>	448	426
Zinc	ppm	ASTM D5185m	0	<b>22</b>	6	28
Sulfur	ppm	ASTM D5185m		<b>5146</b>	4265	4266
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>1.25</b>	1.05	1.15
Visc @ 40°C	cSt	ASTM D445	335	<b>331</b>	333	333
Visc @ 100°C	cSt	ASTM D445	38.3	<b>36.5</b>	37.1	36.9
Viscosity Index (VI)	Scale	ASTM D2270	164	<b>157</b>	159	158



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0807519 **Received** : 24 Apr 2024  
**Lab Number** : 06159086 **Tested** : 26 Apr 2024  
**Unique Number** : 10994509 **Diagnosed** : 26 Apr 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: KV100, V1 )

**JPHYTEC**

JP  
 Contact: Service

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)

T:  
 F: