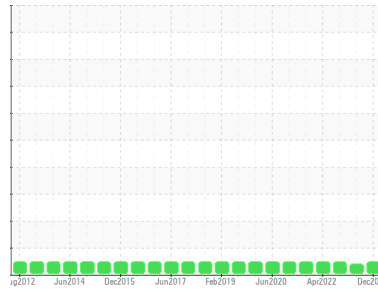




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**IZ/6WM**  
 Component  
**Gearbox**

Fluid  
**MOBIL MOBILGEAR SHC XMP 320 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	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
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
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
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
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

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>8</b>	8	11
Sodium	ppm ASTM D5185m >15	<b>0</b>	0	<1
Potassium	ppm ASTM D5185m >20	<b>0</b>	2	<1
Water	% ASTM D6304 >0.2	<b>NEG</b>	NEG	NEG

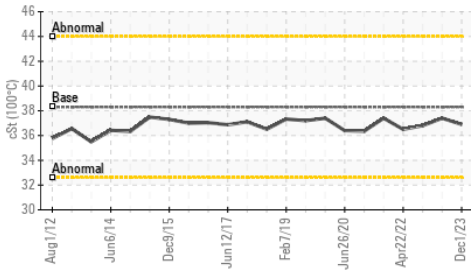
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
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

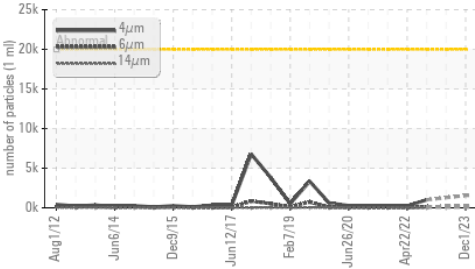
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.85	<b>1.03</b>	0.87	0.98

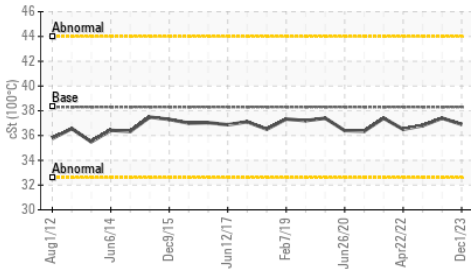
Viscosity @ 100°C



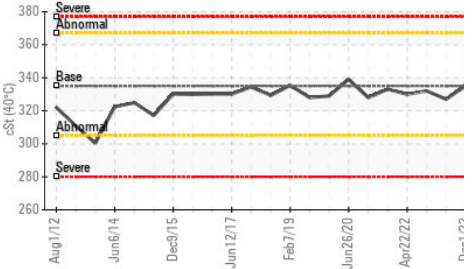
Particle Trend



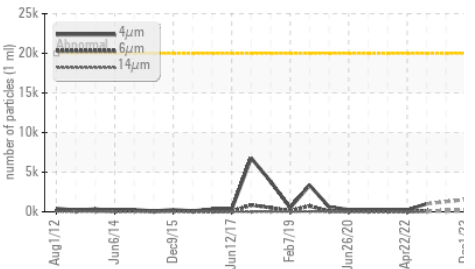
Viscosity @ 100°C



Viscosity @ 40°C



Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

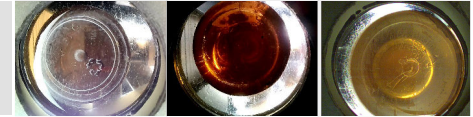
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	335	327	332
Visc @ 100°C	cSt	ASTM D445	38.3	37.4	36.8
Viscosity Index (VI)	Scale	ASTM D2270	164	163	158

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

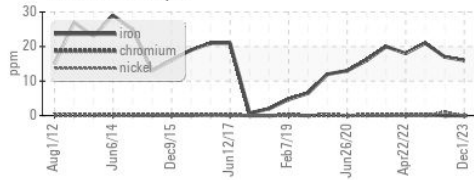


Bottom

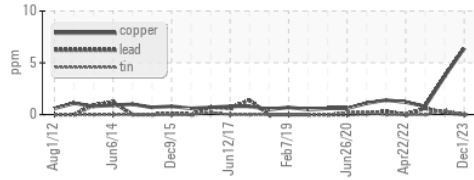


## GRAPHS

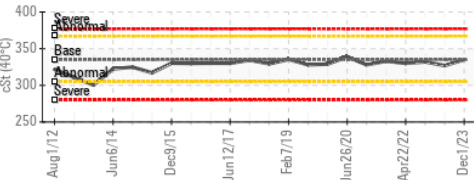
Ferrous Alloys



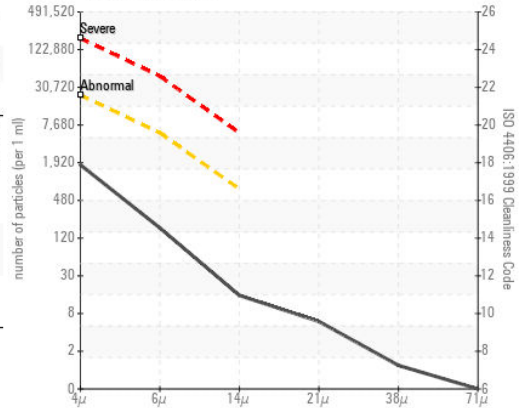
Non-ferrous Metals



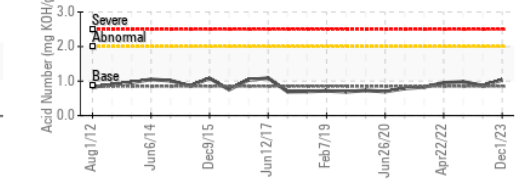
Viscosity @ 40°C



Particle Count



Acid Number



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 )

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: