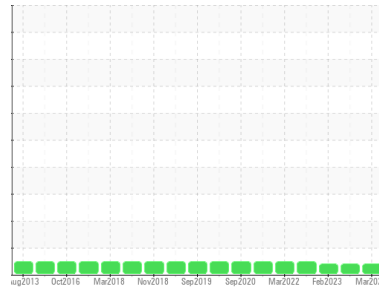




# OIL ANALYSIS REPORT

## Sample Rating Trend



## ADDITIVES



Machine Id  
**HY/1WM**  
 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

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

#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0807442</b>	WC0807338	WC0695080
Sample Date	Client Info			<b>11 Mar 2024</b>	11 Mar 2024	21 Feb 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>12360</b>	12360	3144
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>21</b>	21	6
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>200	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	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	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185m	0	<b>0</b>	<1	23
Phosphorus	ppm	ASTM D5185m	485	<b>313</b>	297	328
Zinc	ppm	ASTM D5185m	0	<b>10</b>	11	18
Sulfur	ppm	ASTM D5185m		<b>255</b>	182	369

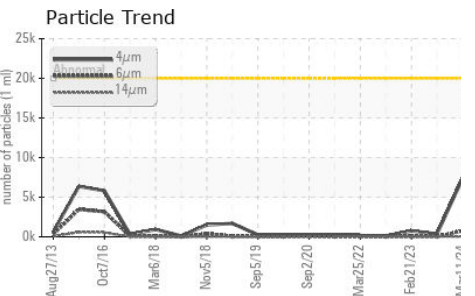
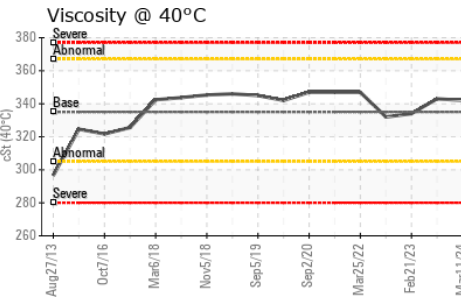
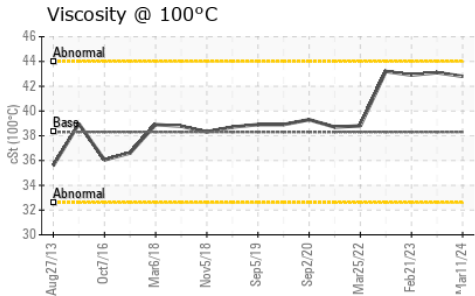
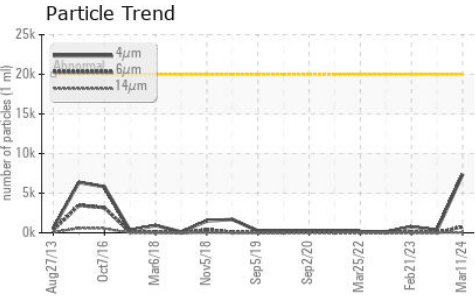
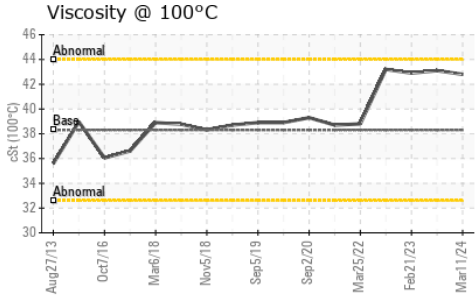
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>9</b>	13	12
Sodium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Water	%	ASTM D6304	>0.2	<b>NEG</b>	NEG	NEG

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>366</b>	7392	752
Particles >6µm		ASTM D7647	>5000	<b>48</b>	740	66
Particles >14µm		ASTM D7647	>640	<b>7</b>	34	8
Particles >21µm		ASTM D7647	>160	<b>2</b>	13	3
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>16/13/10</b>	20/17/12	17/13/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.69</b>	0.70	0.66



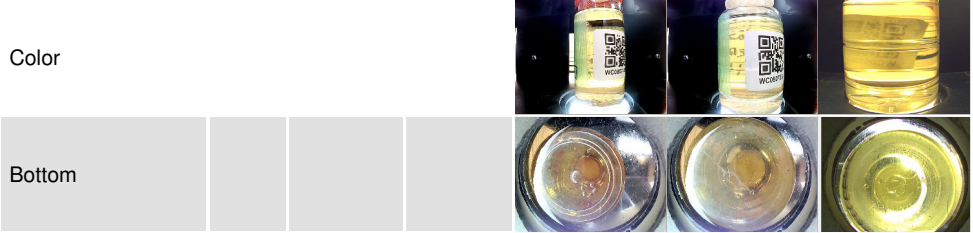
# OIL ANALYSIS REPORT



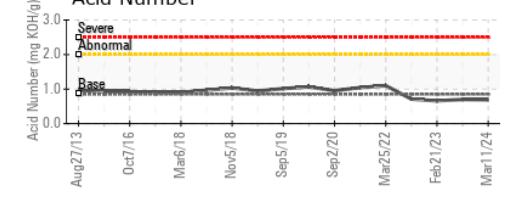
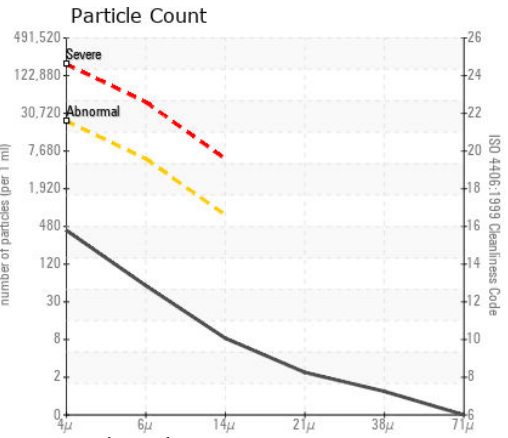
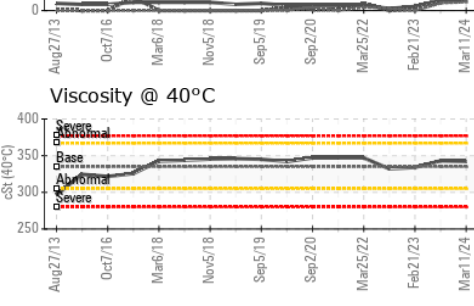
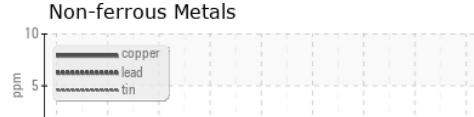
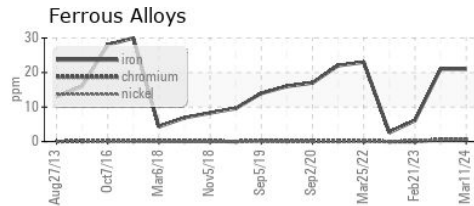
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	343	334
Visc @ 100°C	cSt	ASTM D445	38.3	42.8	43.1
Viscosity Index (VI)	Scale	ASTM D2270	164	182	185

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0807442      **Received** : 05 Apr 2024  
**Lab Number** : 06139801      **Tested** : 08 Apr 2024  
**Unique Number** : 10964609      **Diagnosed** : 08 Apr 2024 - Don Baldrige  
**Test Package** : PLANT ( Additional Tests: KV100, VI )

**JPHYTEC**

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)

JP  
 Contact: Service

T:  
 F: