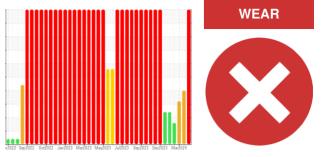


# **PROBLEM SUMMARY**

MOBIL MOBILGEAR 600 XP 320 (105 GAL)

Sample Rating Trend



### COMPONENT CONDITION SUMMARY

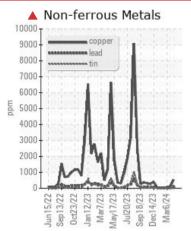
Area

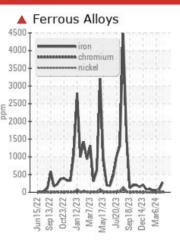
Fluid

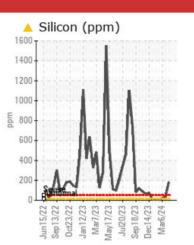
**Building 12** 

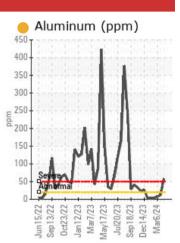
Bulk Tank Lube System

Cone 2A









### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>20	<b>4</b> 278	<u> </u>	<b>6</b> 4		
Lead	ppm	ASTM D5185m	>20	<b>123</b>	22	18		
Copper	ppm	ASTM D5185m	>20	<b>4</b> 539	<b>1</b> 01	<u> </u>		
Tin	ppm	ASTM D5185m	>20	<b>4</b> 9	12	7		
Silicon	ppm	ASTM D5185m	>15	<u> </u>	▲ 35	<b>1</b> 9		

Customer Id: THRPIT Sample No.: WC0936871 Lab Number: 06177805 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECC	MMENDE	O ACTIONS
11200		2110110110

Action Inspect Wear Source	Status	Date	Done By ?	<b>Description</b> We advise that you inspect for the source(s) of wear.		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

### HISTORICAL DIAGNOSIS

## 02 Apr 2024 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view repor



#### 06 Mar 2024 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 22 Feb 2024 Diag: Don Baldridge

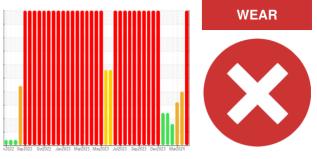
No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



Building 12 Cone 2A Component Bulk Tank Lube System

Fluid MOBIL MOBILGEAR 600 XP 320 (105 GAL)

### DIAGNOSIS

### Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Area

### A Wear

Gear wear is indicated.

### Contamination

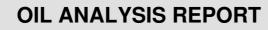
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

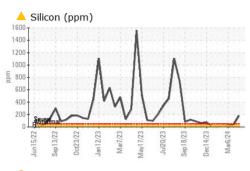
### Fluid Condition

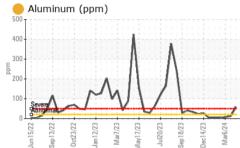
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

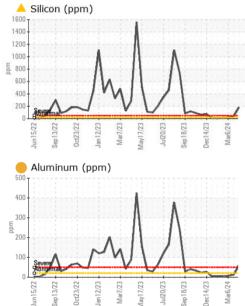
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0936871	WC0901937	WC0901954
Sample Date		Client Info		26 Apr 2024	02 Apr 2024	06 Mar 2024
Machine Age	hrs	Client Info		735	735	735
Oil Age	hrs	Client Info		735	735	735
Oil Changed		Client Info		Filtered	Filtered	Filtered
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>4</b> 278	<b>8</b> 6	<b>6</b> 4
Chromium	ppm	ASTM D5185m	>20	2	<1	0
Nickel	ppm	ASTM D5185m	>20	5	<1	<1
Titanium	ppm	ASTM D5185m		5	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<mark> </mark> 58	12	7
Lead	ppm	ASTM D5185m	>20	🔺 123	22	18
Copper	ppm	ASTM D5185m	>20	<b>4</b> 539	<b>1</b> 01	<mark>▲</mark> 60
Tin	ppm	ASTM D5185m	>20	<b>4</b> 9	12	7
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		23	22	22
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		18	3	0
Manganese	ppm	ASTM D5185m		3	1	1
Magnesium	ppm	ASTM D5185m		23	7	3
Calcium	ppm	ASTM D5185m		33	5	3
Phosphorus	ppm	ASTM D5185m		285	280	304
Zinc	ppm	ASTM D5185m		23	2	<1
Sulfur	ppm	ASTM D5185m		16885	17621	18288
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<u> </u>	<b>4</b> 35	<b>1</b> 9
Sodium	ppm	ASTM D5185m		21	5	4
Potassium	ppm	ASTM D5185m	>20	10	<1	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.56	0.78	0.83

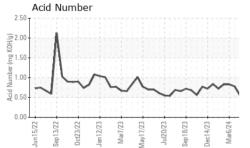








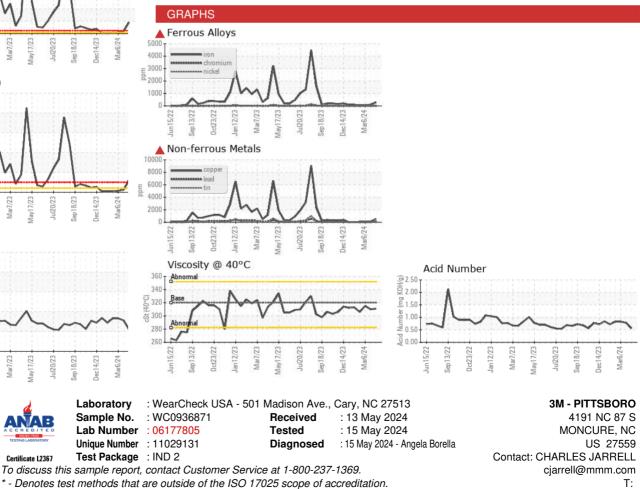




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	311	310	315
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				. 6		. 6.



Bottom



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

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Submitted By: JORDAN TUTEN

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