

# **PROBLEM SUMMARY**

MOBIL MOBILGEAR 600 XP 320 (105 GAL)

Building 12

**Bulk Tank Lube System** 

Cone 2A

Fluic

Sample Rating Trend WEAR

## COMPONENT CONDITION SUMMARY









### 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 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	SEVERE	SEVERE		
Iron	ppm	ASTM D5185m	>20	🛑 1309	• 1021	<b>4</b> 67		
Nickel	ppm	ASTM D5185m	>20	🔺 45	30	13		
Aluminum	ppm	ASTM D5185m	>20	🔺 165	<u> </u>	<b>6</b> 5		
Lead	ppm	ASTM D5185m	>20	<b>e</b> 239	<b>1</b> 87	94		
Copper	ppm	ASTM D5185m	>20	<b>e</b> 3199	• 1912	920		
Tin	ppm	ASTM D5185m	>20	<b>e</b> 343	200	94		
Silicon	ppm	ASTM D5185m	>15	<b>460</b>	9345	206		
Silt	scalar	*Visual	NONE	🔺 MODER	NONE	NONE		

Customer Id: THRPIT Sample No.: WC0820050 Lab Number: 05934416 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Inspect Wear Source	MISSED	Aug 27 2023	?	We advise that you inspect for the source(s) of wear.			
Change Filter	MISSED	Aug 27 2023	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample	MISSED	Aug 27 2023	?	We recommend an early resample to monitor this condition.			
Check Dirt Access	MISSED	Aug 27 2023	?	We advise that you check all areas where dirt can enter the system.			
Filter Fluid	MISSED	Aug 27 2023	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

#### HISTORICAL DIAGNOSIS

#### 20 Jul 2023 Diag: Don Baldridge

WEAR



We advise that you check all areas where dirt can enter the system. 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.Gear wear is indicated. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.



view report

#### WEAR

#### 03 Jul 2023 Diag: Angela Borella

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### DIRT



## 25 Jun 2023 Diag: Angela Borella

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. 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** Fluic 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

#### 🛑 Wear

Generally an abnormal to severe rate of wear throughout the component.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate amount of visible silt present in the sample.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

Sample Number		Client Info		WC0820050	WC0820070	WC0820047
Sample Date		Client Info		02 Aug 2023	20 Jul 2023	03 Jul 2023
Machine Age	hrs	Client Info		0	735	552
Oil Age	hrs	Client Info		1110	0	640
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>e</b> 1309	• 1021	467
Chromium	ppm	ASTM D5185m	>20	17	13	5
Nickel	ppm	ASTM D5185m	>20	<b>4</b> 5	30	13
Titanium	ppm	ASTM D5185m		11	9	5
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	🔺 165	<u> </u>	<mark>▲</mark> 65
Lead	ppm	ASTM D5185m	>20	<b>e</b> 239	<b>1</b> 87	94
Copper	ppm	ASTM D5185m	>20	🛑 3199	• 1912	920
Tin	ppm	ASTM D5185m	>20	<b>ම</b> 343	200	94
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		21	19	18
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		2	1	<1
Manganese	ppm	ASTM D5185m		11	9	4
Magnesium	ppm	ASTM D5185m		66	51	29
Calcium	ppm	ASTM D5185m		72	55	31
Phosphorus	ppm	ASTM D5185m		255	270	230
Zinc	ppm	ASTM D5185m		19	4	10
Sulfur	ppm	ASTM D5185m		14414	17204	15395
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	• 460	• 345	206
Sodium	ppm	ASTM D5185m		56	47	24
Potassium	ppm	ASTM D5185m	>20	17	11	8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.54	0.55	0.61
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
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

Report Id: THRPIT [WUSCAR] 05934416 (Generated: 08/28/2023 18:00:10) Rev: 1



# **OIL ANALYSIS REPORT**



Submitted By: JORDAN TUTEN

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