

PROBLEM SUMMARY

MOBIL MOBILGEAR 600 XP 320 (--- GAL)

Building 12

Bulk Tank Lube System

Cone 2B

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	e 295	221	• 161			
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	A 35	<u> </u>			
Lead	ppm	ASTM D5185m	>20	• 177	• 115	103			
Copper	ppm	ASTM D5185m	>20	🛑 1035	679	482			
Tin	ppm	ASTM D5185m	>20	🛑 105	65	4 9			
Silicon	ppm	ASTM D5185m	>15	🛑 112	99	87			

Customer Id: THRPIT Sample No.: WC0820054 Lab Number: 05934417 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			?	We advise that you inspect for the source(s) of wear.			
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 Aug 2023 Diag: Don Baldridge



WEAR

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.Generally an abnormal to severe rate of wear throughout the component. 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 as a result of the abnormal and/or severe wear.



view report

20 Jul 2023 Diag: Don Baldridge

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.Generally an abnormal to severe rate of wear throughout the component. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe 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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Generally an abnormal to severe rate of wear throughout the component. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

Sample Rating Trend

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SAMPLE INFORMATION method



history2

Area Building 12 Machine Id Cone 2B Component Bulk Tank Lube System Fluid

MOBIL MOBILGEAR 600 XP 320 (--- 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.

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		WC0820054	WC0820051	WC0820071
Sample Date		Client Info		18 Aug 2023	02 Aug 2023	20 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		1370	1160	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	e 295	221	• 161
Chromium	ppm	ASTM D5185m	>20	3	2	1
Nickel	ppm	ASTM D5185m	>20	6	4	3
Titanium	ppm	ASTM D5185m		3	2	2
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<u>40</u>	<mark>▲</mark> 35	<u>▲</u> 29
Lead	ppm	ASTM D5185m	>20	177	• 115	103
Copper	ppm	ASTM D5185m	>20	1 035	679	482
Tin	ppm	ASTM D5185m	>20	1 05	65	4 9
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	13	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		16	13	10
Calcium	ppm	ASTM D5185m		18	16	14
Phosphorus	ppm	ASTM D5185m		227	230	259
Zinc	ppm	ASTM D5185m		38	31	22
Sulfur	ppm	ASTM D5185m		9036	9095	11407
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	112	99	87
Sodium	ppm	ASTM D5185m		11	10	11
Potassium	ppm	ASTM D5185m	>20	5	5	3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.64	0.64
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



OIL ANALYSIS REPORT



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