

PROBLEM SUMMARY

WEAR

Building 12 Cone 1 Component **Bulk Tank Lube System** Mobilgear 629 (105 GAL)

COMPONENT CONDITION SUMMARY







Sample Rating Trend



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil 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.

PROBLEMATIC TEST RESULTS Sample Status SEVERE SEVERE SEVERE Iron ASTM D5185m >20 **5**7 **5**7 **5**7 ppm Aluminum ASTM D5185m >20 **1**6 **A** 20 ppm **7**0 82 Lead ASTM D5185m >20 66 ppm Copper ppm ASTM D5185m >20 491 468 **5**14 34 **4**4 Tin ASTM D5185m >20 ▲ 32 ppm Silicon ppm ASTM D5185m >15 **4**7 51 **4**7

Customer Id: THRPIT Sample No.: WC0853763 Lab Number: 05981295 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 A	RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description					
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.					
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.					

HISTORICAL DIAGNOSIS



18 Sep 2023 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. 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 (AI) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid.



view report

05 Sep 2023 Diag: Don Baldridge



We advise that you check all areas where dirt can enter the system. The oil filtered 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. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

18 Aug 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 100 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





Area Building 12 Machine Id Cone 1

Bulk Tank Lube System

Fluid Mobilgear 629 (105 GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil 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.

🛑 Wear

Gear wear is indicated. Bearing and/or bushing 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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853763	WC05981299	WC0853793
Sample Date		Client Info		26 Sep 2023	18 Sep 2023	05 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		491	0	140
Oil Changed		Client Info		Filtered	N/A	Filtered
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6 57	b 57	5 7
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	3	3	3
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	🔺 15	<u> </u>	<u> </u>
Lead	ppm	ASTM D5185m	>20	● 70	66	82
Copper	ppm	ASTM D5185m	>20	e 491	4 68	• 514
Tin	ppm	ASTM D5185m	>20	A 34	<u> </u>	4 4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	13	15
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	4	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		3	3	13
Calcium	ppm	ASTM D5185m		19	19	34
Phosphorus	ppm	ASTM D5185m		237	239	288
Zinc	ppm	ASTM D5185m		26	25	40
Sulfur	ppm	ASTM D5185m		11215	11056	16053
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4 7	• 51	4 7
Sodium	ppm	ASTM D5185m		7	7	6
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.70	0.70	0.58
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	A MODER
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

Contact/Location: CHARLES JARRELL - THRPIT



OIL ANALYSIS REPORT

