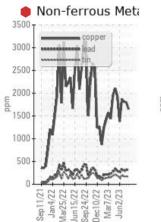


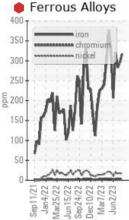
PROBLEM SUMMARY

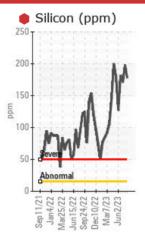
Area Building 12 Machine Id Cone 1 Component Bulk Tank Lube System Fluid

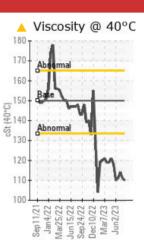
Mobilgear 629 (105 GAL)

COMPONENT CONDITION SUMMARY

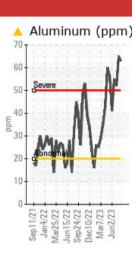








Sample Rating Trend



WEAR

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	ම 317	e 296	283		
Aluminum	ppm	ASTM D5185m	>20	6 3	6 5	<mark>▲</mark> 52		
Lead	ppm	ASTM D5185m	>20	• 309	9321	e 292		
Copper	ppm	ASTM D5185m	>20	🛑 1651	1 797	• 1815		
Tin	ppm	ASTM D5185m	>20	🛑 161	174	• 171		
Silicon	ppm	ASTM D5185m	>15	• 178	• 198	• 171		
Visc @ 40°C	cSt	ASTM D445	150	<u> </u>	A 111	1 14		

Customer Id: THRPIT Sample No.: WC0820052 Lab Number: 05934415 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 <u>customerservice@wearcheck.com</u>

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



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.Moderate concentration of visible metal present. 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.

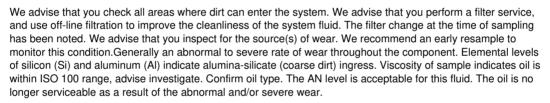


view report

UF

03 Jul 2023 Diag: Angela Borella





25 Jun 2023 Diag: Angela Borella



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. 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 (AI) 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

Mobilgear 629 (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.

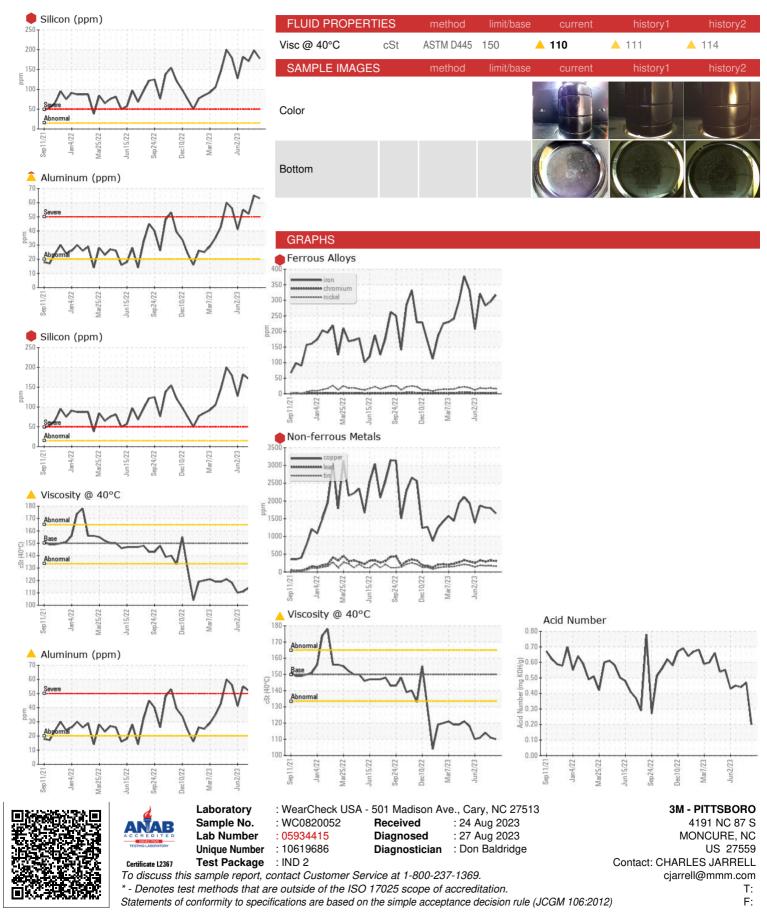
Fluid Condition

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.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0820052	WC0820069	WC0820046	
Sample Date		Client Info		02 Aug 2023	20 Jul 2023	03 Jul 2023	
Machine Age	hrs	Client Info		0	698	698	
Oil Age	hrs	Client Info		1570	0	762	
Oil Changed		Client Info		Not Changd	N/A	Filtered	
Sample Status				SEVERE	SEVERE	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	9317	296	e 283	
Chromium	ppm	ASTM D5185m	>20	3	2	2	
Nickel	ppm	ASTM D5185m	>20	16	18	17	
Titanium	ppm	ASTM D5185m		4	4	4	
Silver	ppm	ASTM D5185m		<1	<1	0	
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	6 5	▲ 52	
Lead	ppm	ASTM D5185m	>20	e 309	9321	e 292	
Copper	ppm	ASTM D5185m	>20	• 1651	1797	e 1815	
Tin	ppm	ASTM D5185m	>20	• 161	174	• 171	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		11	18	13	
Barium	ppm	ASTM D5185m		0	0	2	
Molybdenum	ppm	ASTM D5185m		3	3	3	
Manganese	ppm	ASTM D5185m		4	4	3	
Magnesium	ppm	ASTM D5185m		33	33	31	
Calcium	ppm	ASTM D5185m		72	79	75	
Phosphorus	ppm	ASTM D5185m		225	274	256	
Zinc	ppm	ASTM D5185m		118	119	133	
Sulfur	ppm	ASTM D5185m		10995	12626	11717	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	1 78	198	• 171	
Sodium	ppm	ASTM D5185m		22	26	19	
Potassium	ppm	ASTM D5185m	>20	9	7	8	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.20	0.47	0.44	
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	🔺 HEAVY	
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	
7:59:53) Rev: 1					Submitted By: JORDAN TUTEN		



OIL ANALYSIS REPORT



Submitted By: JORDAN TUTEN

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