

PROBLEM SUMMARY

Sample Rating Trend

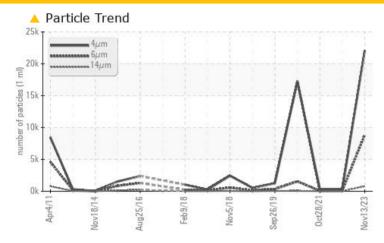
ISO

A103 (S/N 6409-11)

Wind Turbine Gearbox

MOBIL MOBILGEAR SHC XMP 320 (74 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST	RESULTS				
Sample Status			ATTENTION	NORMAL	NORMAL
Particles >6µm	ASTM D7647	>5000	8830	77	74
Particles >14µm	ASTM D7647	>640	778	12	8
Particles >21µm	ASTM D7647	>160	199	3	2
Oil Cleanliness	ISO 4406 (c)	>/19/16	22/20/17	16/13/11	16/13/10

Customer Id: DIADIL Sample No.: MHI026276 Lab Number: 06015056 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

26 Oct 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



28 Oct 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



23 Oct 2020 Diag: Don Baldridge

NORMAL



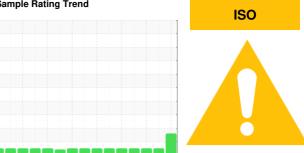
Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



A103 (S/N 6409-11)

Wind Turbine Gearbox

MOBIL MOBILGEAR SHC XMP 320 (74 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

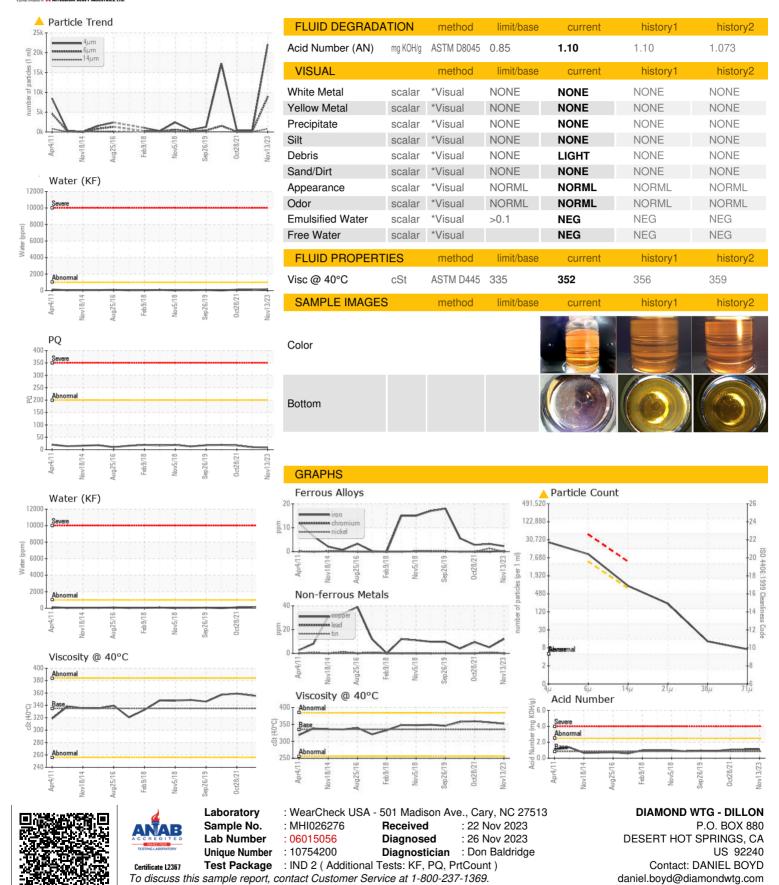
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

L)		Apr2011 No	/2014 Aug2016 Feb201	18 Nov2018 Sep2019 Oct20	21 Nov202:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026276	MHI025361	MHI018312
Sample Date		Client Info		13 Nov 2023	26 Oct 2022	28 Oct 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		96661	90190	84477
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	8	10	17
Iron	ppm	ASTM D5185m	>200	2	3	3
Chromium	ppm	ASTM D5185m	>3	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	1	0
Titanium	ppm	ASTM D5185m	>10	<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	0	0
Lead	ppm	ASTM D5185m	>15	0	<1	0
Copper	ppm	ASTM D5185m	>75	12	5	9
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m	0	<1	<1	0
Phosphorus	ppm	ASTM D5185m	485	415	386	398
Zinc	ppm	ASTM D5185m	0	4	10	10
Sulfur	ppm	ASTM D5185m		4363	4927	3402
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	33	<1	0
Sodium	ppm	ASTM D5185m	>15	<1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.1	0.016	0.008	0.011
ppm Water	ppm	ASTM D6304	>1000	164	87.3	110.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		22073	327	354
Particles >6µm		ASTM D7647	>5000	8830	77	74
Particles >14µm		ASTM D7647	>640	^ 778	12	8
Particles >21µm		ASTM D7647	>160	<u> </u>	3	2
Particles >38µm		ASTM D7647	>40	11	0	0
Particles >71µm		ASTM D7647	>10	6	0	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	22/20/17	16/13/11	16/13/10



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

T: (760)329-7171

F: (760)329-7122