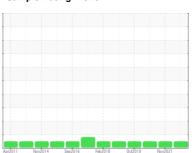


# **OIL ANALYSIS REPORT**

# Sample Rating Trend



NORMAL



# Machine Id **A104** (S/N 6410-01)

Component Wind Turbine Gearbox

**MOBIL MOBILGEAR SHC XMP 320 (74 GAL)** 

DI.			

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

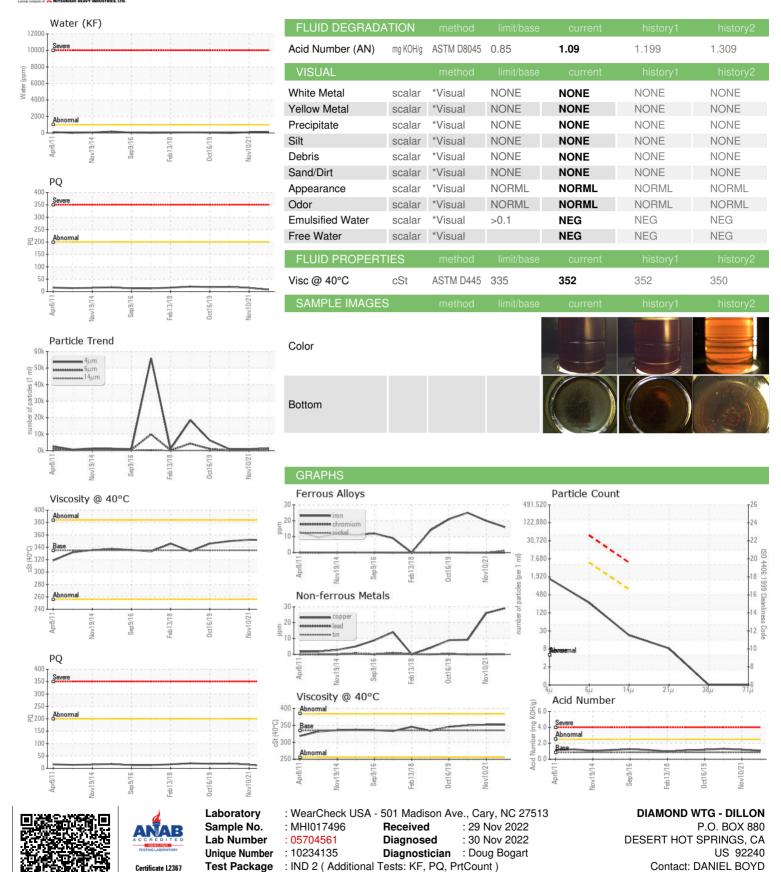
## **Fluid Condition**

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

L)		Apr2011	Nov2014 Sep2016	Feb 2018 Oct 2019 N	ov2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI017496	MHI018320	MHI019266
Sample Date		Client Info		04 Nov 2022	10 Nov 2021	22 Oct 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		90850	84973	78836
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	8	15	19
Iron	ppm	ASTM D5185m	>200	16	20	25
Chromium	ppm	ASTM D5185m	>3	0	0	0
Nickel	ppm	ASTM D5185m	>3	1	0	0
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>30	<1	0	<1
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>75	29	26	9
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m	>5		0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп		11 1.0			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	0	<1
Calcium	ppm	ASTM D5185m	0	1	0	2
Phosphorus	ppm	ASTM D5185m	485	371	408	411
Zinc	ppm	ASTM D5185m	0	28	29	35
Sulfur	ppm	ASTM D5185m		4067	3085	3546
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	0	<1
Sodium	ppm	ASTM D5185m	>15	<1	0	1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.1	0.012	0.008	0.001
ppm Water	ppm	ASTM D6304	>1000	126.8	89.3	9.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1443	999	859
Particles >6µm		ASTM D7647	>5000	230	178	109
Particles >14µm		ASTM D7647	>640	19	18	15
Particles >21µm		ASTM D7647	>160	7	4	6
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	18/15/11	17/15/11	17/14/11



# **OIL ANALYSIS REPORT**



To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

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