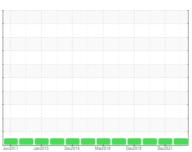


## **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



# Machine Id **C107 (S/N 6408-07)**

Component

**Wind Turbine Gearbox** 

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

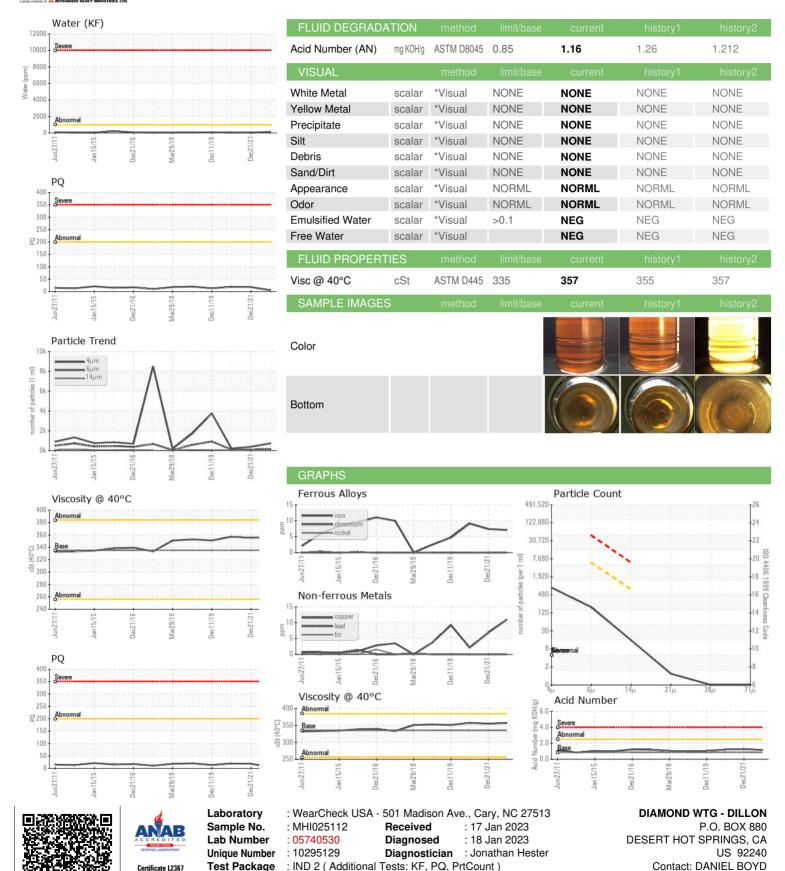
#### **Fluid Condition**

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

Jun2011 Jun2015 Dec2016 Mur2018 Dec2019 Dec2021						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI025112	MHI017533	MHI017443
Sample Date		Client Info		15 Dec 2022	21 Dec 2021	30 Nov 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		87633	81785	75470
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	5	18	19
Iron	ppm	ASTM D5185m	>200	7	7	9
Chromium	ppm	ASTM D5185m	>3	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>30	0	<1	0
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>75	11	7	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5		<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	191111		line it /le e e e			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	485	398	423	442
Zinc	ppm	ASTM D5185m	0	16	12	8
Sulfur	ppm	ASTM D5185m		4527	3727	3744
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	2	<1	0
Sodium	ppm	ASTM D5185m	>15	0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	0.012	0.004	0.004
ppm Water	ppm	ASTM D6304	>1000	127.9	45.9	48.9
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		734	391	225
Particles >6µm		ASTM D7647	>5000	163	105	103
Particles >14μm		ASTM D7647	>640	13	15	28
Particles >21µm		ASTM D7647	>160	1	7	13
Particles >38µm		ASTM D7647	>40	0	0	2
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	17/15/11	16/14/11	15/14/12
		3 (3)		· · · · ·		



## **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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