

# **OIL ANALYSIS REPORT**

### Sample Rating Trend



**NORMAL** 



## A501 (S/N 6410-03)

Component Wind Turbine Gearbox

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

willa	IUIDIII	e Gea	IDUX
Fluid			

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

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

### **Fluid Condition**

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

4. Aug2011 Mar2015 Aug2016 Feb2018 Sep2019 Oct2020 Oct2021 Oct2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026278	MHI017499	MHI017016
Sample Date		Client Info		31 Oct 2023	29 Sep 2022	04 Oct 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		43379	36754	30762
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	14	9	22
Iron	ppm	ASTM D5185m	>200	3	6	8
Chromium	ppm	ASTM D5185m	>3	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	<1	0	<1
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>75	51	33	14
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m	>5			0
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	0	0	<1	5
Barium	ppm	ASTM D5185m		6	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m	0	38	7	0
Phosphorus	ppm	ASTM D5185m	485	309	357	404
Zinc	ppm	ASTM D5185m	0	16	20	18
Sulfur	ppm	ASTM D5185m		2757	4209	3512
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	0	<1	<1
Sodium	ppm	ASTM D5185m	>15	0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.1	0.011	0.017	0.003
ppm Water	ppm	ASTM D6304	>1000	114.0	174.5	39.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4924	277	467
Particles >6µm		ASTM D7647	>5000	463	55	109
Particles >14µm		ASTM D7647	>640	16	12	8
Particles >21µm		ASTM D7647	>160	5	5	2
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	19/16/11	15/13/11	16/14/10



## **OIL ANALYSIS REPORT**

