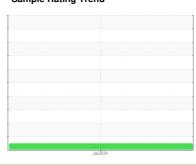


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



C-3-1 LO

**Wind Turbine Gearbox** 

{not provided} (--- 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.

				Jan2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026929		
Sample Date		Client Info		17 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	15		
Iron	ppm	ASTM D5185m	>200	0		
Chromium	ppm	ASTM D5185m	>3	0		
	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>10	<1		
Silver	ppm	ASTM D5185m	>10	0		
Aluminum		ASTM D5185m	>30	0		
	ppm					
Lead	ppm	ASTM D5185m	>15	0		
	ppm	ASTM D5185m	>75	37		
Tin	ppm	ASTM D5185m	>10	<1		
	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		248		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		1899		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.1	0.016		
ppm Water	ppm	ASTM D6304	>1000	163		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6084		
Particles >6µm		ASTM D7647	>5000	1261		
Particles >14µm		ASTM D7647	>640	24		
Particles >21µm		ASTM D7647	>160	3		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>/19/16	20/17/12		
FLUID DEGRADAT	TION -	method	limit/base	current	history1	history2
PLOID DEGNADA	HON	method	IIIIII/Dase	Carrent	HISTOLY	HISTOLYZ



## **OIL ANALYSIS REPORT**





Sample No. Lab Number **Unique Number** 

: MHI026929 : 06075768

: 10857859

Recieved Diagnosed

: 01 Feb 2024 Diagnostician : Don Baldridge

P.O. BOX 880 DESERT HOT SPRINGS, CA

US 92240

Contact: SERVICE MANAGER

**Test Package**: IND 2 (Additional Tests: KF, PQ, PrtCount) Certificate L2367 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)

F: (760)329-7122