

## **OIL ANALYSIS REPORT**

## MAGENTA NTX [200007685] 25WEA91139 - E-10

**Wind Turbine Gearbox** 

SHELL OMALA S5 WIND 320 (--- LTR)

# Sample Rating Trend **WEAR**

### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

The iron level is abnormal. All other component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### **Fluid Condition**

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

				Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX012245		
Sample Date		Client Info		05 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	32		
Iron	ppm	ASTM D5185m	>30	<b>48</b>		
Chromium	ppm	ASTM D5185m	>3	0		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	0		
Lead	ppm	ASTM D5185m	>15	0		
Copper	ppm	ASTM D5185m	>10	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
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		2		
Phosphorus	ppm	ASTM D5185m		479		
Zinc	ppm	ASTM D5185m		1		
Sulfur	ppm	ASTM D5185m		4036		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	10		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.02	0.003		
ppm Water	ppm	ASTM D6304	>200	37		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		335207		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	<u> </u>		
Particles >21µm		ASTM D7647	>40	17		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>17/14	<u>4</u> 24/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045



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