

# **OIL ANALYSIS REPORT**

#### Area **MAGENTA NTX [200007685]** Machine Id **22WEA91147 - E-13** Component

Wind Turbine Gearbox Filuid SHELL OMALA S5 WIND 320 (--- LTR)

# DIAGNOSIS

#### Recommendation

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

# Wear

All component wear rates are normal.

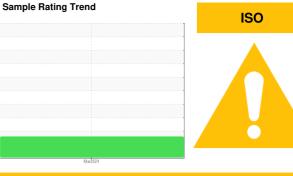
# Contamination

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.

Report Id: NORDEX [WUSCAR] 06134013 (Generated: 04/03/2024 12:38:19) Rev: 1



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX012276		
Sample Date		Client Info		14 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	15		
Iron	ppm	ASTM D5185m	>30	26		
Chromium	ppm	ASTM D5185m	>3	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	0		
Lead	ppm	ASTM D5185m	>15	۰ <1		
Copper	ppm	ASTM D5185m	>10	6		
Tin	ppm	ASTM D5185m		ہ <1		
Vanadium		ASTM D5185m	210	<1		
	ppm			0		
Cadmium	ppm	ASTM D5185m		U		
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		511		
Zinc	ppm	ASTM D5185m		10		
Sulfur	ppm	ASTM D5185m		4362		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	11		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.02	0.003		
ppm Water	ppm	ASTM D6304	>200	34		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		98052		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	<u> </u>		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	3		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>17/14	<b>4</b> 21/15		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045

0.95

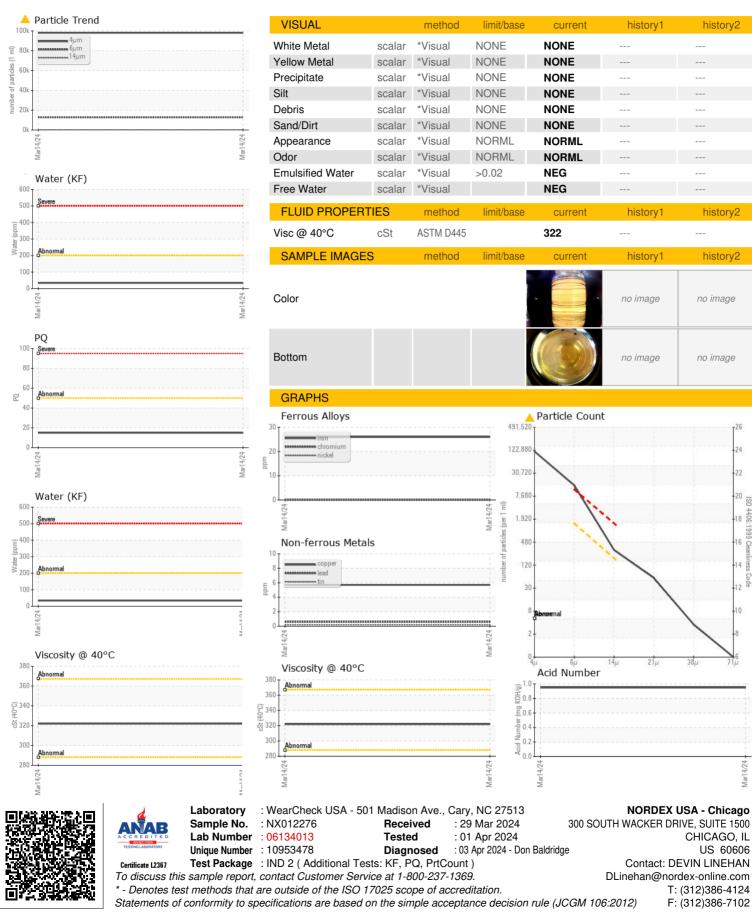
Contact/Location: DEVIN LINEHAN - NORDEX

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# **OIL ANALYSIS REPORT**



Contact/Location: DEVIN LINEHAN - NORDEX

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US 60606

history2

history

history2

no image

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4/24

38µ