

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

#### Area BEKEVAR [46004111] Machine Id D623021 (S/N CM0088)

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

#### 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.

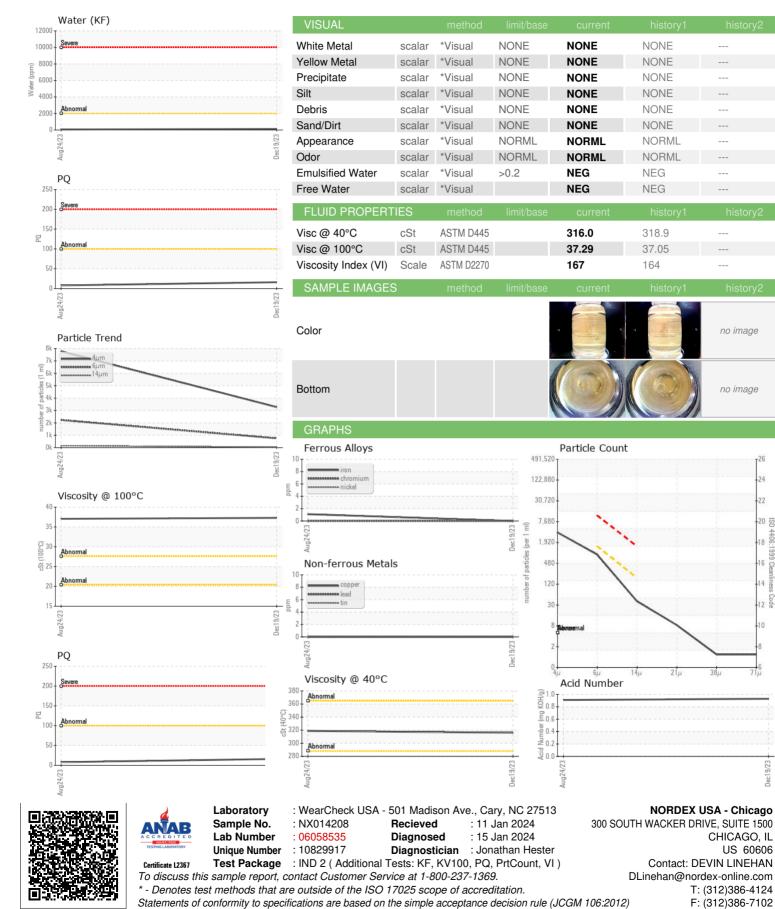
			Aug2023	Dec2023		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014208	NX013329	
Sample Date		Client Info		19 Dec 2023	24 Aug 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		16	8	
Iron	ppm	ASTM D5185m	>200	0	1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		0	<1	
Lead	ppm	ASTM D5185m		0	0	
Copper	ppm	ASTM D5185m		0	0	
Tin	ppm	ASTM D5185m		0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ppm	method	limit/base	current	history1	history2
			iiiiii/base		· · · · ·	
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	4	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		440	538	
Zinc	ppm	ASTM D5185m		3	3	
Sulfur	ppm	ASTM D5185m		3399	4335	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		0	2	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.2	0.012	0.006	
ppm Water	ppm	ASTM D6304	>2000	123	60.5	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3274	7767	
Particles >6µm		ASTM D7647	>1300	749	<b>1</b> 2230	
Particles >14µm		ASTM D7647	>160	34	156	
Particles >21µm		ASTM D7647	>40	7	40	
Particles >38µm		ASTM D7647	>10	1	2	
Particles >71µm		ASTM D7647	>3	1	1	
Oil Cleanliness		ISO 4406 (c)	>17/14	17/12	▲ 18/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.93	0.91	
:59:52) Rev: 2	0 - 0	Contact/Location: DEVIN LINEHAN - NORDEX				

Report Id: NORDEX [WUSCAR] 06058535 (Generated: 01/15/2024 15:59:52) Rev: 2

Contact/Location: DEVIN LINEHAN - NORDEX



# **OIL ANALYSIS REPORT**



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