

OIL ANALYSIS REPORT

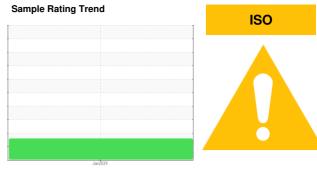
AZURE SKY [200007684]

T-13

Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (--- LTF



DIAGNOSIS

Recommendation

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

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.

2)				Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054790		
Sample Date		Client Info		07 Jan 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	>40	23		
Iron	ppm	ASTM D5185m	>55	14		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>15	0		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m	>5 >7	0		
Tin		ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m	>3	0		
vanadium Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	ppiii		limit/base	-		
Boron	202	method ASTM D5185m	IIIIIVbase	current 3	history1	history2
	ppm	ASTM D5185m		0		
Barium	ppm			-		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		14		
Phosphorus	ppm	ASTM D5185m		196		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4666		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	11		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.02	0.002		
ppm Water	ppm	ASTM D6304	>200	25		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		36321		
Particles >6µm		ASTM D7647	>320	<u> </u>		
Particles >14µm		ASTM D7647	>40	130		
Particles >21µm		ASTM D7647	>10	<u>^</u> 25		
Particles >38µm		ASTM D7647	>3	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	<u>22/19/14</u>		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

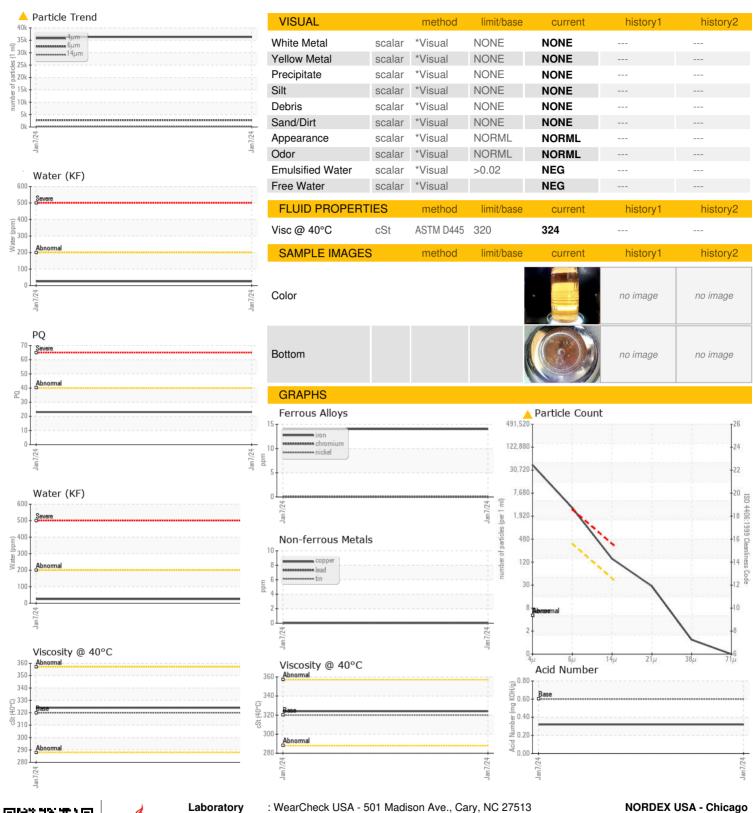
Acid Number (AN)

mg KOH/g ASTM D8045 0.6

Contact/Location: DEVIN LINEHAN - NORDEX



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: NX06054790 : 06054790

: 10820739

: 08 Jan 2024 Recieved Diagnosed

: 10 Jan 2024

Diagnostician : Don Baldridge

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

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.

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Contact: DEVIN LINEHAN DLinehan@nordex-online.com

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DEVIN LINEHAN - NORDEX