

# **OIL ANALYSIS REPORT**

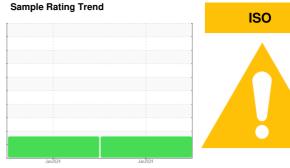
# AZURE SKY [200007684]

T-14

Component

**Wind Turbine Gearbox** 

**FUCHS RENOLIN UNISYN CLP 320 (--- LTF** 



## **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. 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.

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)		L	Jan 2024	Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054822	NX06054794	
Sample Date		Client Info		07 Jan 2024	07 Jan 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	13	14	
ron	ppm	ASTM D5185m	>30	7	14	
Chromium	ppm	ASTM D5185m	>3	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>10	0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>30	0	0	
_ead	ppm	ASTM D5185m	>15	0	0	
Copper	ppm	ASTM D5185m	>10	0	0	
Јорреі Гіп	ppm	ASTM D5185m	>10	0	0	
Vanadium		ASTM D5185m	710	0	0	
vanadium Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	F FTT	method	limit/base	current	history1	history2
	10.10.100	ASTM D5185m	III III Dasc	5	5	
Boron Barriana	ppm			0		
Barium	ppm	ASTM D5185m			0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		13	13	
Phosphorus	ppm	ASTM D5185m		198	197	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		4712	4677	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	10	7	
Sodium	ppm	ASTM D5185m		3	3	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
Water	%	ASTM D6304	>0.02	0.002	0.002	
opm Water	ppm	ASTM D6304	>200	25	23	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		14348	89646	
Particles >6µm		ASTM D7647	>320	<b>4184</b>	<b>▲</b> 10720	
Particles >14µm		ASTM D7647	>40	<b>285</b>	<u>^</u> 228	
Particles >21µm		ASTM D7647	>10	<u> </u>	<b>△</b> 45	
Particles >38µm		ASTM D7647	>3	2	3	
Particles >71µm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>/15/12	<u> </u>	<u>4</u> 24/21/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Anial Niversia (ANI)	VOIII	ACTM DOOG	0.0	0.00	0.04	



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Certificate L2367

Sample No. Lab Number **Unique Number** 

: NX06054822 : 06054822

Recieved : 10820771

: 08 Jan 2024 Diagnosed : 10 Jan 2024 Diagnostician : Jonathan Hester

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

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Contact/Location: DEVIN LINEHAN - NORDEX