

# **OIL ANALYSIS REPORT**

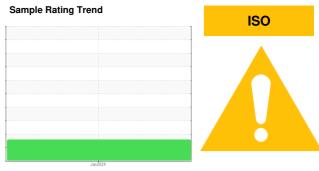
# AZURE SKY [200007684]

T-33

Component

**Wind Turbine Gearbox** 

**FUCHS RENOLIN UNISYN CLP 320 (650 LT** 



## **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.

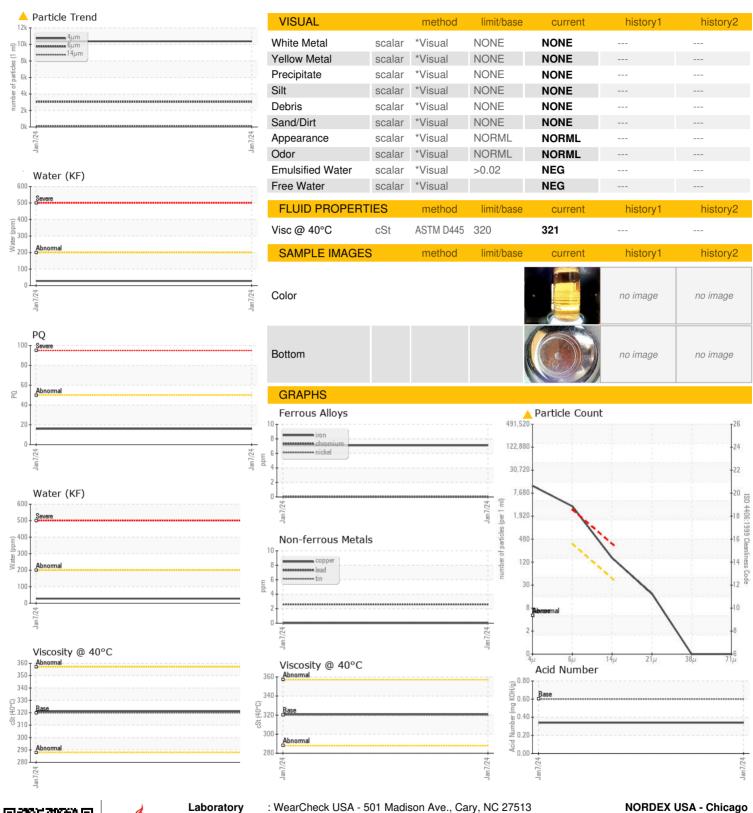
#### **Fluid Condition**

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

R)						
•••		,		Jan2024	, ,	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054819		
Sample Date		Client Info		07 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	16		
Iron	ppm	ASTM D5185m	>30	7		
Chromium	ppm	ASTM D5185m	>3	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver		ASTM D5185m	>10	0		
Aluminum	ppm		>30	0		
	ppm	ASTM D5185m		-		
Lead	ppm	ASTM D5185m	>15	3		
Copper	ppm	ASTM D5185m	>10	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		17		
Phosphorus	ppm	ASTM D5185m		203		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4721		
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	6		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.02	0.003		
ppm Water	ppm	ASTM D6304	>200	28		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		10375		
Particles >6µm		ASTM D7647	>320	<b>△</b> 3050		
Particles >14μm		ASTM D7647	>40	<b>137</b>		
Particles >21μm		ASTM D7647	>10	<u> </u>		
Particles >38µm		ASTM D7647	>3	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	<u>^</u> 21/19/14		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	1/011/	10711 00015				



# **OIL ANALYSIS REPORT**







Certificate L2367

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

: NX06054819 : 06054819

: 10820768

Recieved : 08 Jan 2024 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**NORDEX USA - Chicago** 

300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL US 60606

Contact: DEVIN LINEHAN DLinehan@nordex-online.com

T: (312)386-4124

F: (312)386-7102

Report Id: NORDEX [WUSCAR] 06054819 (Generated: 01/10/2024 10:51:17) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX