

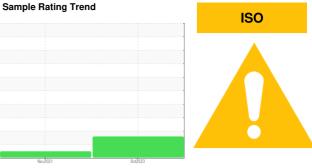
# **OIL ANALYSIS REPORT**

# Area MARYNEAL [200006807]

87022 SITE 1

Component Wind Turbine Gearbox

**FUCHS RENOLIN UNISYN CLP 320 (650 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.

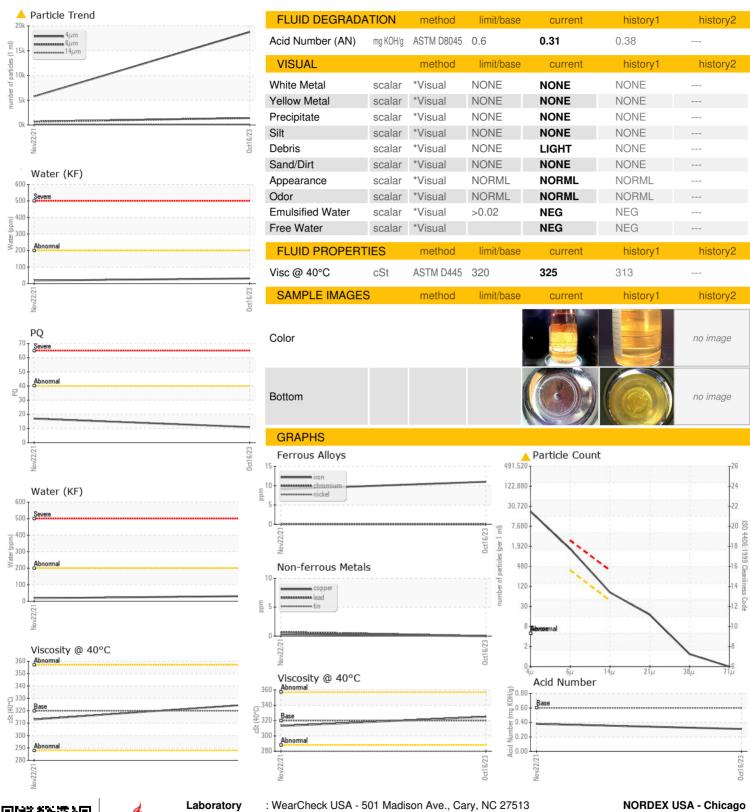
### **Fluid Condition**

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

ΓR)			Nov2021	Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054852	NX009577	
Sample Date		Client Info		16 Oct 2023	22 Nov 2021	
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	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	11	17	
Iron	ppm	ASTM D5185m	>55	11	9	
Chromium	ppm	ASTM D5185m	>2	0	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m	>10	0	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>15	0	11	
Lead	ppm	ASTM D5185m	>3	0	<1	
Copper	ppm	ASTM D5185m	>7	0	<1	
Tin	ppm	ASTM D5185m	>3	0	<1	
Antimony	ppm	ASTM D5185m	>3		0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	77	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		11	19	
Phosphorus	ppm	ASTM D5185m		182	196	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		4684	4136	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	10	
Sodium	ppm	ASTM D5185m		4	0	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
Water	%	ASTM D6304	>0.02	0.003	0.002	
ppm Water	ppm	ASTM D6304	>200	31	18.5	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		18778	5767	
Particles >6µm		ASTM D7647	>320	<u> 1407</u>	684	
Particles >14µm		ASTM D7647	>40	<b>^</b> 70	75	
Particles >21µm		ASTM D7647	>10	<u> </u>	27	
Particles >38µm		ASTM D7647	>3	1	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/15/12	<u> </u>	20/17/13	



## OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number** 

: NX06054852 : 06054852 : 10820801

Recieved Diagnosed

: 08 Jan 2024 : 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)

300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL

> US 60606 Contact: DEVIN LINEHAN

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Report Id: NORDEX [WUSCAR] 06054852 (Generated: 01/10/2024 10:59:15) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX