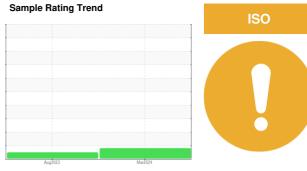


# **OIL ANALYSIS REPORT**

# Area SAUZ [200007686] Q05WEA90073 (S/N W-123223)

**Wind Turbine Gearbox** 

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



### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

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•		<u></u>	Aug2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015079	NX014534	
Sample Date		Client Info		13 Mar 2024	01 Aug 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ATTENTION	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	13	11	
ron	ppm	ASTM D5185m	>55	21	19	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m	>2	0	0	
Γitanium	ppm	ASTM D5185m	>10	0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>15	<1	0	
Lead	ppm	ASTM D5185m	>3	<1	<1	
Copper	ppm	ASTM D5185m	>7	0	<1	
Tin	ppm	ASTM D5185m	>3	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	2	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		0	1	
Calcium	ppm	ASTM D5185m		11	19	
Phosphorus	ppm	ASTM D5185m		213	210	
Zinc	ppm	ASTM D5185m		0	6	
Sulfur	ppm	ASTM D5185m		5967	4555	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	5	6	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	%	ASTM D6304	>0.02	0.006	0.003	
opm Water	ppm	ASTM D6304	>200	67	39.3	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		3922	9465	
Particles >6µm		ASTM D7647	>320	<b>367</b>	2060	
Particles >14µm		ASTM D7647	>40	25	181	
Particles >21µm		ASTM D7647	>10	8	45	
Particles >38µm		ASTM D7647	>3	2	4	
Particles >71µm		ASTM D7647	>3	2	1	
Oil Cleanliness		ISO 4406 (c)	>/15/12	<b>19/16/12</b>	20/18/15	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩H/a	4STM D8045	0.6	0.34	0.35	

Acid Number (AN)

mg KOH/g ASTM D8045 0.6

0.35

Contact/Location: DEVIN LINEHAN - NORDEX



## **OIL ANALYSIS REPORT**

