

# **OIL ANALYSIS REPORT**

#### Area EL SAUZ [200007686] Machine Id L08WEA90059 (S/N W-123096) Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (--- LTR)

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

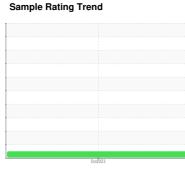
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

# Fluid Condition

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





NORMAL

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014581		
Sample Date		Client Info		30 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	17		
Iron	ppm	ASTM D5185m	>55	26		
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	>3	0		
Copper	ppm	ASTM D5185m	>7	0		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m	20	0		
Cadmium	ppm	ASTM D5185m		0		
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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		17		
Phosphorus	ppm	ASTM D5185m		204		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4872		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m		0		
Water	%	ASTM D6304	>0.02	0.008		
ppm Water	ppm	ASTM D6304	>200	86		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5106		
Particles >6µm		ASTM D7647	>320	300		
Particles >14µm		ASTM D7647	>40	24		
Particles >21µm		ASTM D7647	>10	6		
Particles >38µm		ASTM D7647	>3	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/15/12	20/15/12		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045 0.6

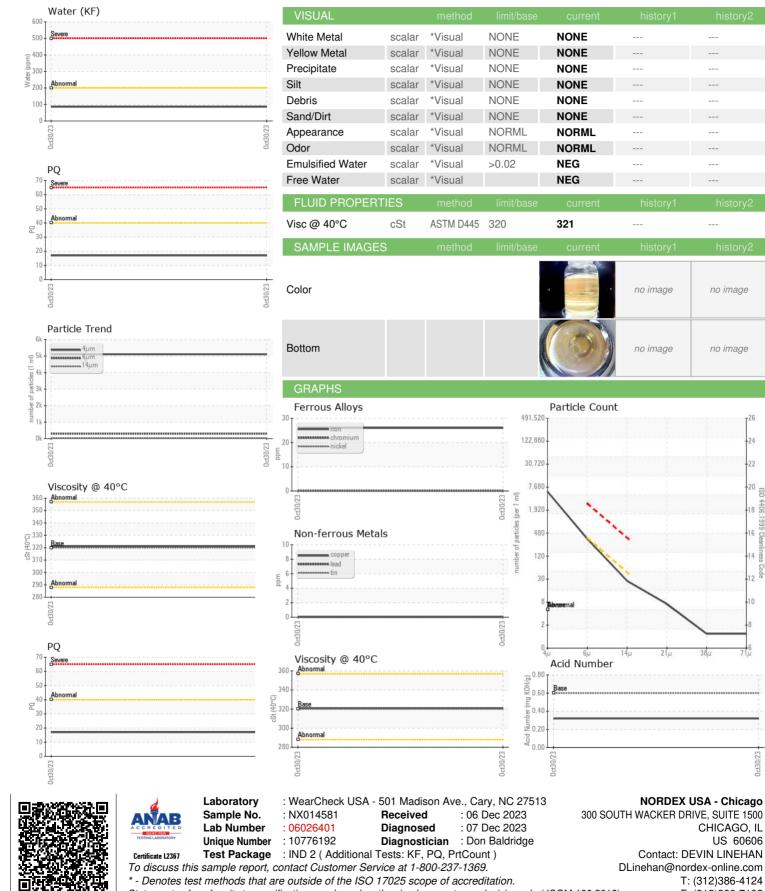
0.32

Contact/Location: DEVIN LINEHAN - NORDEX

Report Id: NORDEX [WUSCAR] 06026401 (Generated: 12/07/2023 15:48:37) Rev: 1



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