

## **OIL ANALYSIS REPORT**

# PRIDDY [200005313] 32WEA88821 - G3

Component Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (--- LTR)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

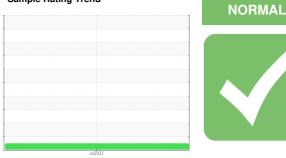
All component wear rates are normal.

#### Contamination

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

### Fluid Condition

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



Sample Rating Trend



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX010216		
Sample Date		Client Info		06 Jul 2023		
Machine Age	hrs	Client Info		23170		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
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WEAR METALS		method ASTM D8184	limit/base	current	history1	history2
			>30	14		
Iron	ppm	ASTM D5185m		-		
Chromium	ppm	ASTM D5185m	>3	0		
Nickel	ppm		>3	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	0		
Lead	ppm	ASTM D5185m	>15	2		
Copper	ppm	ASTM D5185m	>10	<1		
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		3		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		24		
Phosphorus	ppm	ASTM D5185m		209		
Zinc	ppm	ASTM D5185m		7		
Sulfur	ppm	ASTM D5185m		5337		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	4		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.02	0.003		
ppm Water	ppm	ASTM D6304		30.3		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		504		
Particles >6µm		ASTM D7647	>320	107		
Particles >14µm		ASTM D7647	>40	19		
Particles >21µm		ASTM D7647	>10	7		
Particles >38µm		ASTM D7647	>3	2		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/15/12	16/14/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

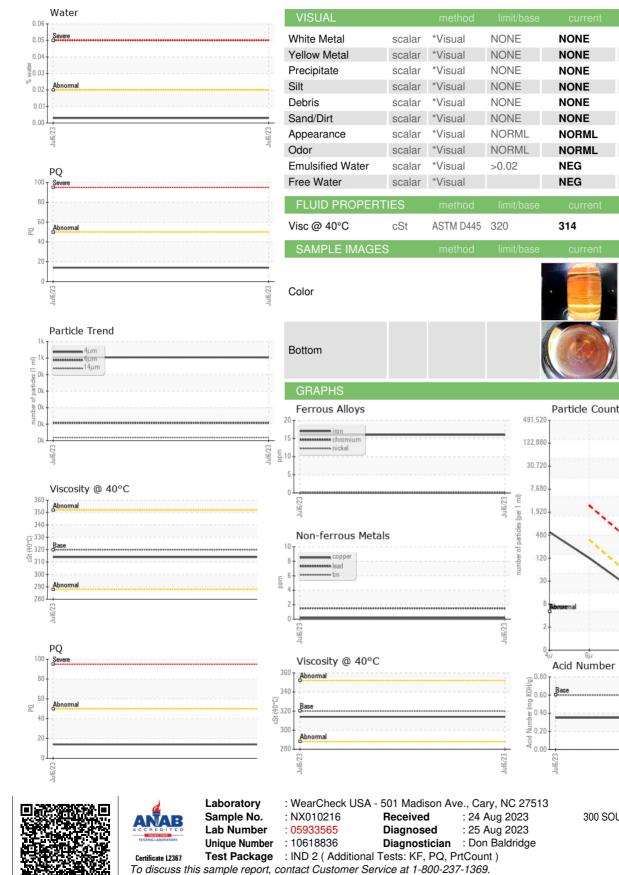
Acid Number (AN) mg KOH/g ASTM D8045 0.6 0.35

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Contact/Location: DEVIN LINEHAN - NORDEX



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\* - 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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300 SOUTH WACKER DRIVE, SUITE 1500

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