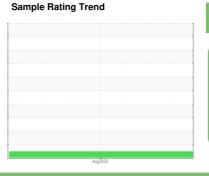


# **OIL ANALYSIS REPORT**

# EL SAUZ [US-SAUZ-01-US-5] D03-WEA90047 (S/N W-122936)

**Wind Turbine Gearbox** 

**FUCHS RENOLIN UNISYN CLP 320 (--- LTR)** 





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

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.

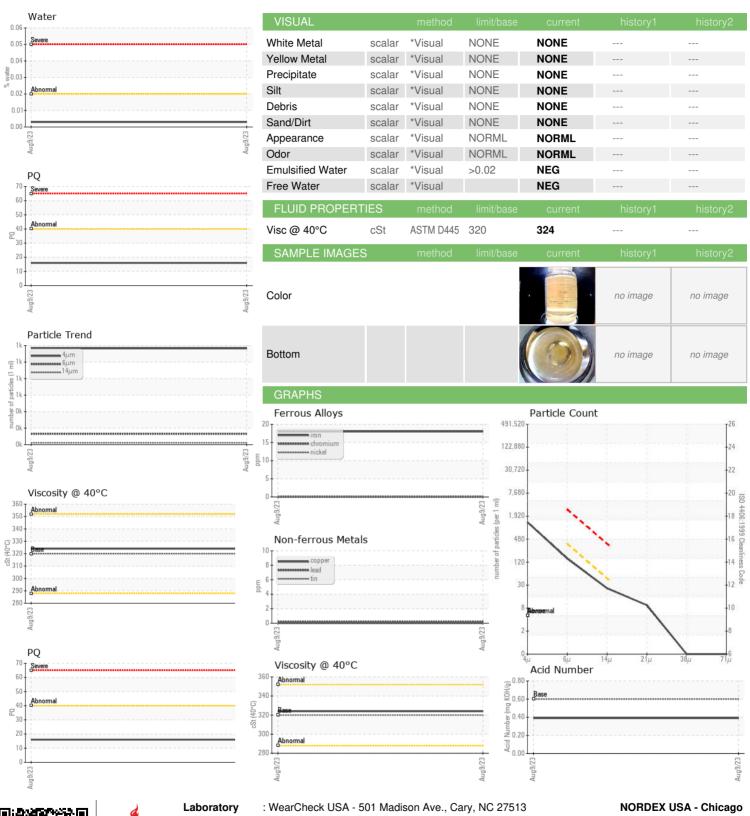
### **Fluid Condition**

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

<b>?</b> )				Aug 2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014508		
Sample Date		Client Info		09 Aug 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	16		
Iron	ppm	ASTM D5185m	>55	18		
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	<1		
Copper	ppm	ASTM D5185m	>7	0		
Tin	ppm	ASTM D5185m	>3	0		
Vanadium		ASTM D5185m	70	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	pp	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	IIIIII/Dase	2		
Barium	ppm	ASTM D5185m		2		
Molybdenum		ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
-	ppm	ASTM D5185m		<1		
Magnesium Calcium	ppm	ASTM D5185m		17		
	ppm					
Phosphorus	ppm	ASTM D5185m		217		
Zinc	ppm	ASTM D5185m		6		
Sulfur	ppm	ASTM D5185m		5317		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	7		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.02	0.003		
ppm Water	ppm	ASTM D6304	>200	35.5		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1165		
Particles >6µm		ASTM D7647	>320	131		
Particles >14µm		ASTM D7647	>40	22		
Particles >21µm		ASTM D7647	>10	8		
Particles >38µm		ASTM D7647	>3	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	17/14/12		
	TION	method	limit/base	current	history1	history2



# **OIL ANALYSIS REPORT**







Certificate L2367

Sample No. Lab Number **Unique Number** 

: NX014508 : 05933559

: 10618830

Received : 24 Aug 2023 : 25 Aug 2023

Diagnosed 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/Location: DEVIN LINEHAN - NORDEX

Contact: DEVIN LINEHAN DLinehan@nordex-online.com

T: (312)386-4124

F: (312)386-7102