

PROBLEM SUMMARY

EL SAUZ [200007686] Machine Id L08WEA90360 (S/N W-123194)

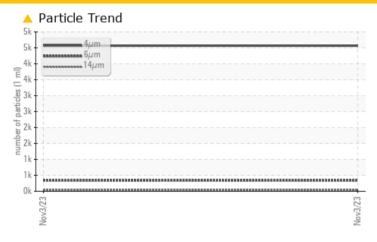
Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (--- LTR)

Sample Rating Trend ISO No.0223

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION						
Particles >6µm	ASTM D7647	>320	4 340						
Particles >14µm	ASTM D7647	>40	41						
Particles >21µm	ASTM D7647	>10	<u> </u>						
Oil Cleanliness	ISO 4406 (c)	>/15/12	19/16/13						

Customer Id: NORDEX Sample No.: NX014586 Lab Number: 06026402 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



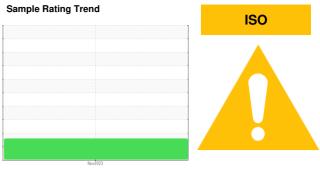
OIL ANALYSIS REPORT

EL SAUZ [200007686] Machine Id L08WEA90360 (S/N W-123194)

Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (--- LTR



DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

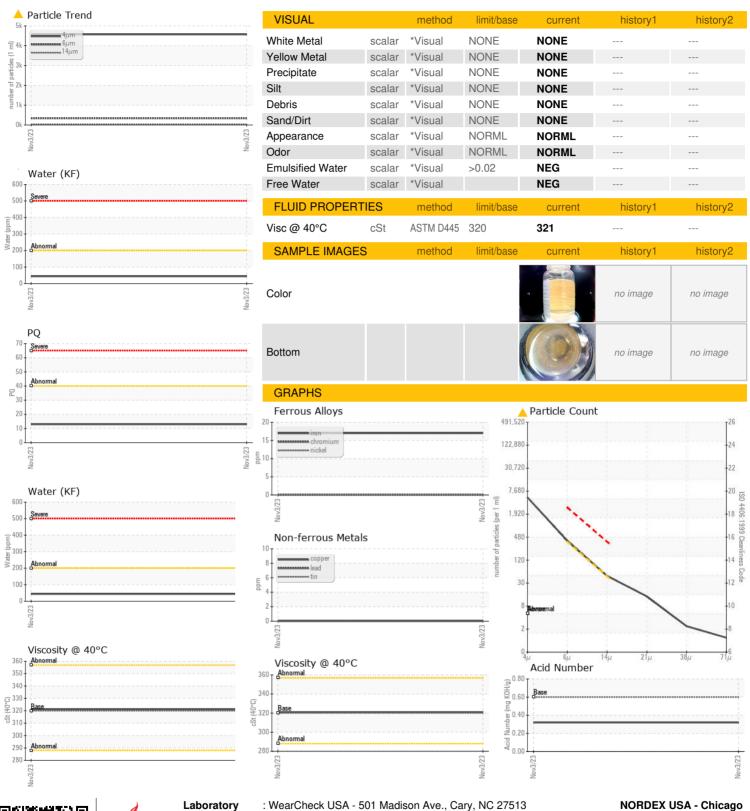
Fluid Condition

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

)				Nov2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014586		
Sample Date		Client Info		03 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed	1110	Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	13		
ron	ppm	ASTM D5185m	>55	17		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m	>10	0		
			>10	0		
	ppm	ASTM D5185m	15	-		
	ppm	ASTM D5185m	>15	0		
_ead	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m	>7	0		
	ppm	ASTM D5185m	>3	0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		18		
Phosphorus	ppm	ASTM D5185m		203		
Zinc	ppm	ASTM D5185m		0		
		ASTM D5185m		4874		
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	7		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.02	0.004		
opm Water	ppm	ASTM D6304	>200	44		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4569		
Particles >6µm		ASTM D7647	>320	△ 340		
Particles >14µm		ASTM D7647	>40	<u>41</u>		
Particles >21µm		ASTM D7647	>10	<u> </u>		
Particles >38µm		ASTM D7647	>3	2		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/15/12	1 9/16/13		
FLUID DEGRADAT	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: NX014586 : 06026402

: 10776193

Received : 06 Dec 2023 Diagnosed : 07 Dec 2023 Diagnostician : Don Baldridge **Test Package**: IND 2 (Additional Tests: KF, PQ, PrtCount)

300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL US 60606

> Contact: DEVIN LINEHAN DLinehan@nordex-online.com T: (312)386-4124

F: (312)386-7102

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)