

# **PROBLEM SUMMARY**

# 0076061

EL SAUZ [200007686]

Machine Id MO4WEA90360 (S/N W-123194)

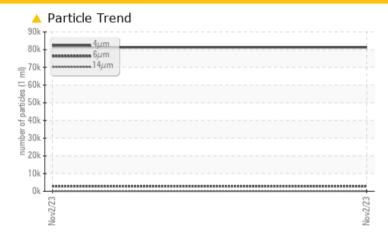
Component

**Wind Turbine Gearbox** 

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

# Sample Rating Trend ISO New 2023

# **COMPONENT CONDITION SUMMARY**



# RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL				
Particles >6µm	ASTM D7647	>320	<b>2858</b>				
Particles >14µm	ASTM D7647	>40	<u> </u>				
Particles >21µm	ASTM D7647	>10	<u> </u>				
Particles >38µm	ASTM D7647	>3	<b>△</b> 3				
Oil Cleanliness	ISO 4406 (c)	>/15/12	<b>24/19/13</b>				

Customer Id: NORDEX Sample No.: NX014584 Lab Number: 06026400 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						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		

# HISTORICAL DIAGNOSIS

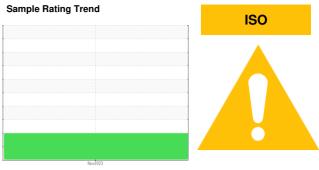


# **OIL ANALYSIS REPORT**

# EL SAUZ [200007686] M04WEA90360 (S/N W-123194)

**Wind Turbine Gearbox** 

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



# **DIAGNOSIS**

## Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

There is a high 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		NX014584		
Sample Date		Client Info		02 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	25		
ron	ppm	ASTM D5185m	>55	36		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m	>2	0		
Γitanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m	-	0		
Aluminum	ppm	ASTM D5185m	>15	0		
_ead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m	>7	<1		
Tin		ASTM D5185m		0		
/anadium	ppm	ASTM D5185m	>0	0		
Variadium Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	P   P   1   1   1   1   1   1   1   1	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	IIIIII/basc	3		
	ppm	ASTM D5185m		0		
Barium	ppm			-		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		17		
Phosphorus	ppm	ASTM D5185m		205		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4841		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
Nater	%	ASTM D6304	>0.02	0.008		
opm Water	ppm	ASTM D6304	>200	88		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		81278		
Particles >6µm		ASTM D7647	>320	<b>2858</b>		
Particles >14µm		ASTM D7647	>40	<u> </u>		
Particles >21µm		ASTM D7647	>10	<u>^</u> 23		
Particles >38µm		ASTM D7647	>3	<u>^</u> 3		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/15/12	<u>4</u> 24/19/13		
FLUID DEGRADAT	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.6

Contact/Location: DEVIN LINEHAN - NORDEX



# **OIL ANALYSIS REPORT**





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

: NX014584 : 06026400 : 10776191

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 06 Dec 2023

: 07 Dec 2023 Diagnostician : Don Baldridge

**Test Package**: IND 2 (Additional Tests: KF, PQ, PrtCount) Certificate L2367 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.

Contact: DEVIN LINEHAN DLinehan@nordex-online.com

300 SOUTH WACKER DRIVE, SUITE 1500

T: (312)386-4124 F: (312)386-7102

CHICAGO, IL US 60606

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)