

EL SAUZ

PROBLEM SUMMARY

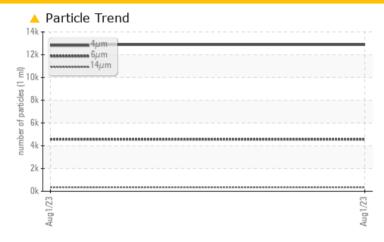
Q06WEA90068 (S/N W-123223)

Wind Turbine Gearbox

FUCHS RENOLIN CLP ISO 320 (--- LTR)

Sample Rating Trend ISO Aug/2023

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	>2500	4568							
Particles >14μm	ASTM D7647	>320	▲ 351							
Oil Cleanliness	ISO 4406 (c)	>/18/15	21/19/16							

Customer Id: NORDEX Sample No.: NX014532 Lab Number: 05924846 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

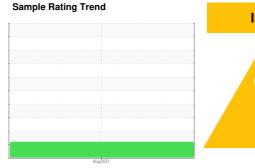


OIL ANALYSIS REPORT

EL SAUZ Q06WEA90068 (S/N W-123223)

Wind Turbine Gearbox

FUCHS RENOLIN CLP ISO 320 (--- LTR)





DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

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

Fluid Condition

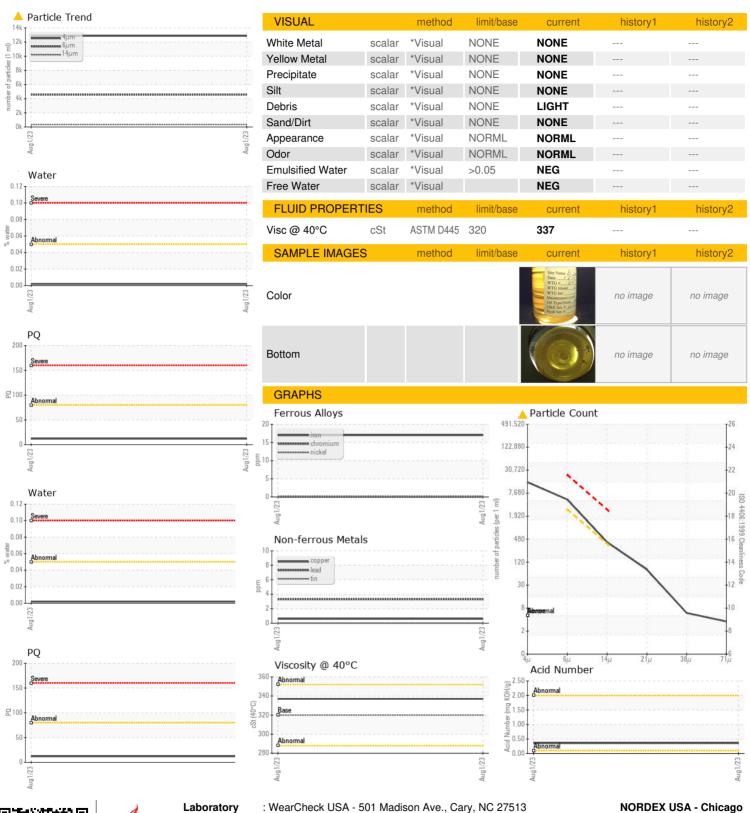
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014532		
Sample Date		Client Info		01 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	12		
Iron	ppm	ASTM D5185m	>150	17		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>20	3		
Copper	ppm	ASTM D5185m	>50	<1		
Tin	ppm	ASTM D5185m	>3	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
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		<1		
Calcium	ppm	ASTM D5185m		18		
Phosphorus	ppm	ASTM D5185m		210		
Zinc	ppm	ASTM D5185m		5		
Sulfur	ppm	ASTM D5185m		4815		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	10		
Sodium	ppm	ASTM D5185m	>20	<1		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	0.002		
ppm Water	ppm	ASTM D6304	>500	20.3		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		12871		
Particles >6µm		ASTM D7647	>2500	4568		
Particles >14μm		ASTM D7647	>320	<u>▲</u> 351		
Particles >21µm		ASTM D7647	>80	68		
Particles >38µm		ASTM D7647	>20	5		
Particles >71µm		ASTM D7647	>4	3		
Oil Cleanliness		ISO 4406 (c)	>/18/15	<u>^</u> 21/19/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Contact/Location: DEVIN LINEHAN - NORDEX



OIL ANALYSIS REPORT







Certificate L2367

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

: NX014532 : 05924846

Received Diagnosed

: 15 Aug 2023 : 16 Aug 2023 Diagnostician : Jonathan Hester

: 10604793 **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.

NORDEX USA - Chicago

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Contact: DEVIN LINEHAN DLinehan@nordex-online.com

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

Report Id: NORDEX [WUSCAR] 05924846 (Generated: 08/16/2023 14:24:52) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX