

OIL ANALYSIS REPORT

EL SAUZ Q05WEA90073 (S/N W-123223)

Wind Turbine Gearbox

FUCHS RENOLIN CLP ISO 320 (--- LTR)

Sample Rating Trend



כוי	ΙΔ	G١	NιC	15	II S

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

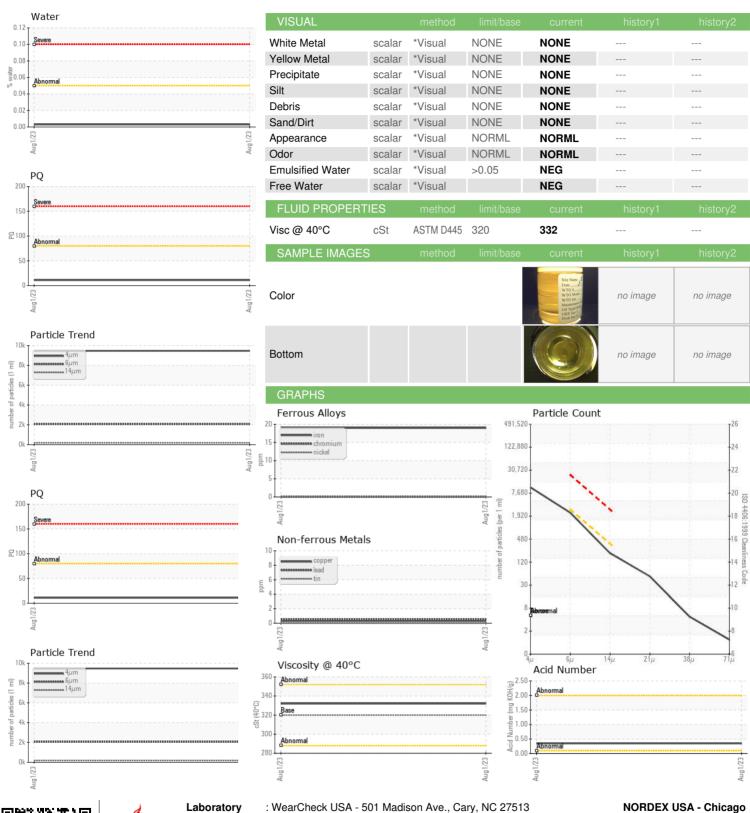
Fluid Condition

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

			,	lug 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014534		
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				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	11		
Iron	ppm	ASTM D5185m	>150	19		
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	<1		
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		19		
Phosphorus	ppm	ASTM D5185m		210		
Zinc	ppm	ASTM D5185m		6		
Sulfur	ppm	ASTM D5185m		4555		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6		
Sodium	ppm	ASTM D5185m	>20	0		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	0.003		
ppm Water	ppm	ASTM D6304	>500	39.3		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9465		
Particles >6µm		ASTM D7647	>2500	2060		
Particles >14µm		ASTM D7647	>320	181		
Particles >21µm		ASTM D7647	>80	45		
Particles >38µm		ASTM D7647	>20	4		
Particles >71µm		ACTM D7647	>4	1		
r artiolog >7 rpm		ASTM D7647	/ T	•		
Oil Cleanliness		ISO 4406 (c)	>/18/15	20/18/15		



OIL ANALYSIS REPORT







Certificate L2367

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

: 05924845

: NX014534 : 10604792

Received Diagnosed

: 15 Aug 2023 : 16 Aug 2023

Diagnostician : Jonathan Hester

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

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

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