

OIL ANALYSIS REPORT

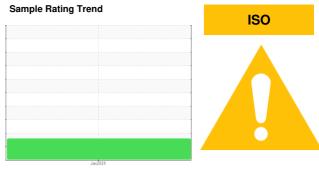
AZURE SKY [200007684]

T-15

Component

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.

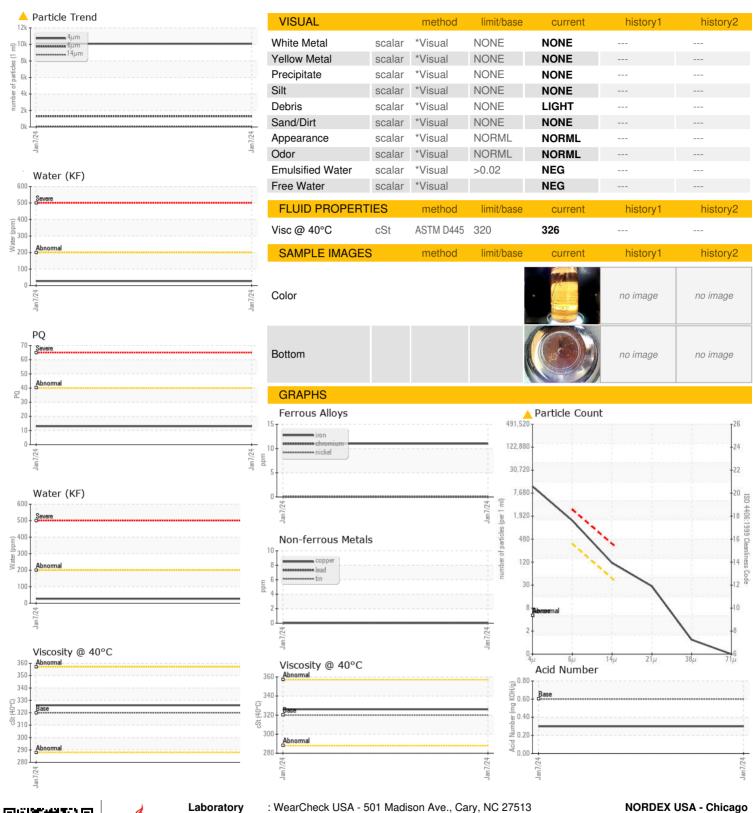
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?)				Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054842		
Sample Date		Client Info		07 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed	0	Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	13		
Iron	ppm	ASTM D5185m	>55	11		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium		ASTM D5185m	>10	0		
Silver	ppm		>10	-		
	ppm	ASTM D5185m	45	0		
Aluminum	ppm	ASTM D5185m	>15	0		
Lead	ppm	ASTM D5185m	>3	0		
Copper	ppm	ASTM D5185m	>7	0		
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		3		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		4		
Phosphorus	ppm	ASTM D5185m		185		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4735		
			Paralle flame and		Introduce and	la la La ma O
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.02	0.003		
ppm Water	ppm	ASTM D6304	>200	27		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		10077		
Particles >6µm		ASTM D7647	>320	<u> </u>		
Particles >14µm		ASTM D7647	>40	<u> </u>		
Particles >21µm		ASTM D7647	>10	<u>^</u> 25		
Particles >38µm		ASTM D7647	>3	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	<u>△</u> 21/17/14		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	140114	1071100015				

Acid Number (AN)

mg KOH/g ASTM D8045 0.6



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Certificate L2367

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

: NX06054842 : 06054842 : 10820791

Recieved

Diagnosed

: 08 Jan 2024 : 10 Jan 2024 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) **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

Contact/Location: DEVIN LINEHAN - NORDEX