

OIL ANALYSIS REPORT

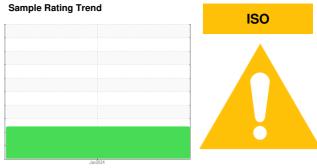
AZURE SKY [200007684]

T-09

Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (650 LT



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.

R)				Jan 2024		
SAMPLE INFOR	ΜΔΤΙΩΝ	method	limit/base	current	history1	history2
	WATION		IIIIIIVDase			
Sample Number		Client Info		NX06054785 07 Jan 2024		
Sample Date	lawa					
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		· ·		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	20		
Iron	ppm	ASTM D5185m	>30	7		
Chromium	ppm	ASTM D5185m	>3	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	0		
Lead	ppm	ASTM D5185m	>15	<1		
Copper	ppm	ASTM D5185m	>10	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		16		
Phosphorus	ppm	ASTM D5185m		200		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4695		
CONTAMINANT		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>+15	2	Thistory I	motoryz
	ppm		>+13			
Sodium	ppm	ASTM D5185m	00	4		
Potassium	ppm	ASTM D5185m ASTM D6304	>20	0		
Water opm Water	% ppm	ASTM D6304 ASTM D6304	>0.02 >200	0.003 28		
FLUID CLEANLI		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		12234		
Particles >6µm		ASTM D7647	>320	A 4417		
Particles >14µm		ASTM D7647	>40	▲ 394		
Particles >21µm		ASTM D7647		▲ 79		
Particles >21µm		ASTM D7647	>3	▲ 4		
Particles >36µm		ASTM D7647		▲ 3		
Oil Cleanliness		ISO 4406 (c)	>3 >/15/12	<u>^</u> 3 <u>^</u> 21/19/16		
	ATION					
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

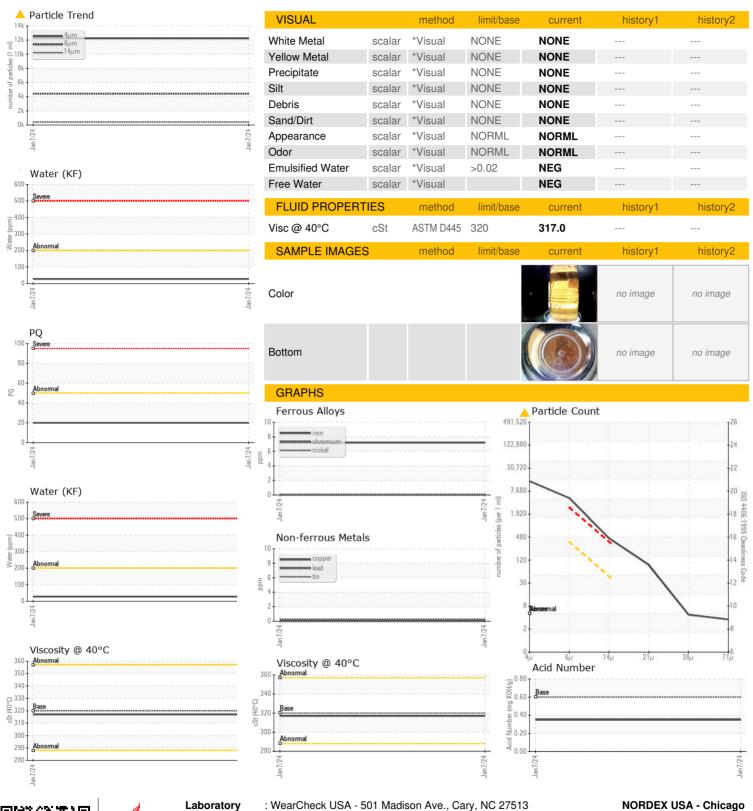
Acid Number (AN)

mg KOH/g ASTM D8045 0.6

Contact/Location: DEVIN LINEHAN - NORDEX



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Certificate L2367

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

: NX06054785 : 06054785

Recieved Diagnosed : 10820734

: 11 Jan 2024 Diagnostician : Don Baldridge

: 08 Jan 2024

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

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Report Id: NORDEX [WUSCAR] 06054785 (Generated: 01/11/2024 12:15:29) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX