

OIL ANALYSIS REPORT

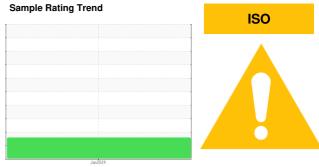
AZURE SKY [200007684]

T-19

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.

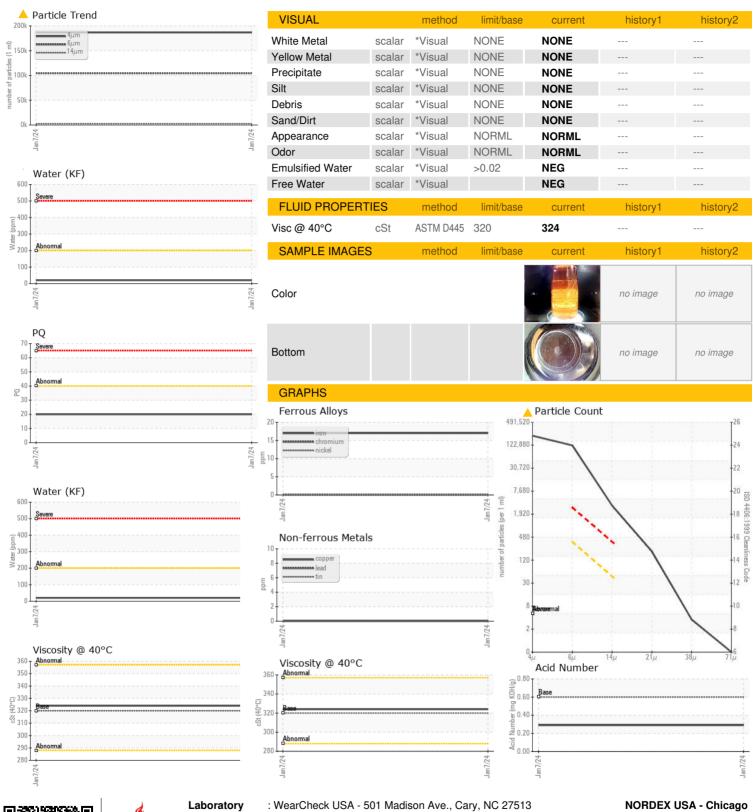
Fluid Condition

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

3)				Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054843		
Sample Date		Client Info		07 Jan 2024		
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	20		
Iron	ppm	ASTM D5185m	>55	17		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>15	0		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m	>7	0		
Tin		ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m	>3	0		
vanadium Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	ppiii		limit/base	-		histow.O.
		method ASTM D5185m	imivbase	current 6	history1	history2
Boron Barium	ppm	ASTM D5185m		0		
	ppm			-		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		13		
Phosphorus	ppm	ASTM D5185m		197		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4755		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	7		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.02	0.002		
ppm Water	ppm	ASTM D6304	>200	20		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		186658		
Particles >6µm		ASTM D7647	>320	<u>104389</u>		
Particles >14μm		ASTM D7647	>40	<u> </u>		
Particles >21µm		ASTM D7647	>10	180		
Particles >38µm		ASTM D7647	>3	3		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	<u>^</u> 25/24/19		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2



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Sample No. Lab Number **Unique Number**

: 06054843 : 10820792

: NX06054843 Recieved

: 08 Jan 2024 Diagnosed : 10 Jan 2024

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.

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