

OIL ANALYSIS REPORT

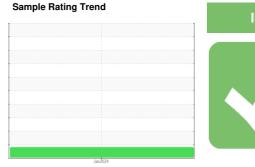
AZURE SKY [200007684]

T-03

Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (--- LTR





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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 silt (particulates < 14 microns in size) present in the oil.

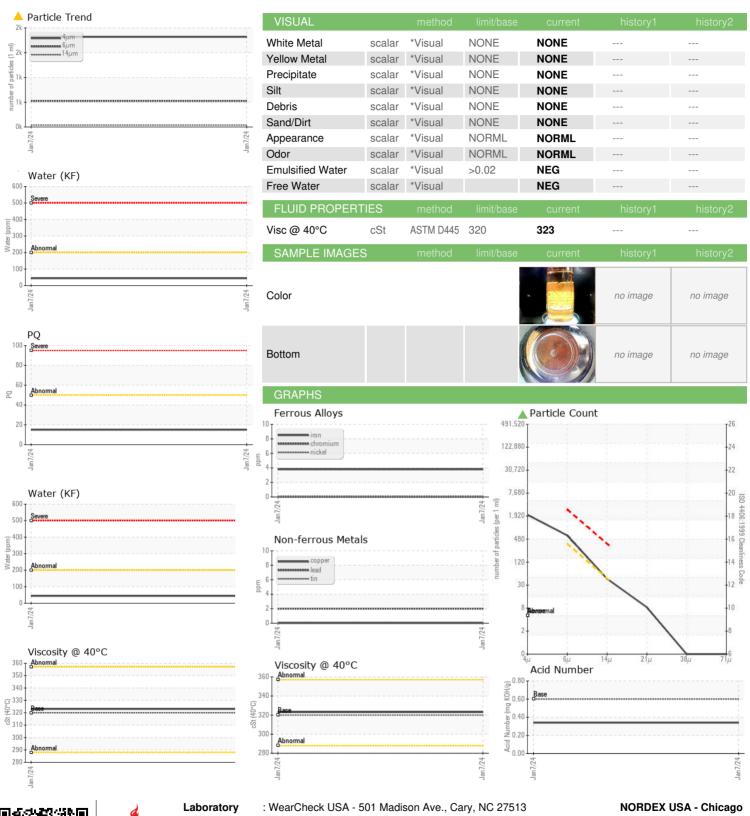
Fluid Condition

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

R)			Jan 2024			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	MATION		IIIIII/Dase			HISTOLYZ
Sample Number		Client Info		NX06054828		
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				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	15		
Iron	ppm	ASTM D5185m	>30	4		
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	2		
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		7		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		15		
Phosphorus	ppm	ASTM D5185m		199		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4573		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	5		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.02	0.004		
ppm Water	ppm	ASTM D6304	>200	44		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1818		
Particles >6µm		ASTM D7647	>320	▲ 526		
Particles >14µm		ASTM D7647	>40	39		
Particles >21µm		ASTM D7647	>10	7		
Particles >38µm		ASTM D7647	>3	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	18/16/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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Certificate L2367

Sample No. Lab Number **Unique Number**

: NX06054828 : 06054828

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 10820777

Recieved Diagnosed

: 08 Jan 2024 : 10 Jan 2024 Diagnostician : Don Baldridge

Test Package: IND 2 (Additional Tests: KF, PQ, PrtCount)

300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL

US 60606 Contact: DEVIN LINEHAN

DLinehan@nordex-online.com T: (312)386-4124

* - 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)

F: (312)386-7102