

OIL ANALYSIS REPORT

Area [200007683] 41WEA88431 - K-01 (S/N W-122501)

Wind Turbine Gearbox

Fluic FUCHS RENOLIN UNISYN CLP 320 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

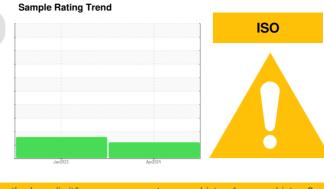
All component wear rates are normal.

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.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015615	NX011551	
Sample Date		Client Info		18 Apr 2024	31 Jan 2023	
Machine Age	hrs	Client Info		0	1821	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	22	16	
Iron	ppm	ASTM D5185m	>55	41	19	
Chromium	ppm	ASTM D5185m	>2	<1	0	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm		>10	<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>15	2	0	
Lead	ppm	ASTM D5185m	>3	2	1	
Copper		ASTM D5185m	>3 >7	2 <1	<1	
Tin	ppm	ASTM D5185m	>3	<1	0	
Vanadium	ppm	ASTM D5185m	>0	0	0	
	ppm					
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	3	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		1	<1	
Magnesium	ppm	ASTM D5185m		<1	0	
Calcium	ppm	ASTM D5185m		14	17	
Phosphorus	ppm	ASTM D5185m		215	194	
Zinc	ppm	ASTM D5185m		12	0	
Sulfur	ppm	ASTM D5185m		4726	5250	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	13	8	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304	>0.02	0.002	0.009	
ppm Water	ppm	ASTM D6304	>200	21	97.5	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		166082	64712	
Particles >6μm		ASTM D7647	>320	<u> </u>	1 2561	
Particles >14µm		ASTM D7647	>40	208	▲ 395	
Particles >21µm		ASTM D7647		13	<u> </u>	
Particles >38µm		ASTM D7647	>3	0	2	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/15/12	▲ 25/23/15	▲ 23/21/16	
FLUID DEGRADA		method	limit/base	current	history1	history2
		methou	minubase	current	TIStOLA	Thistory2

Acid Number (AN)

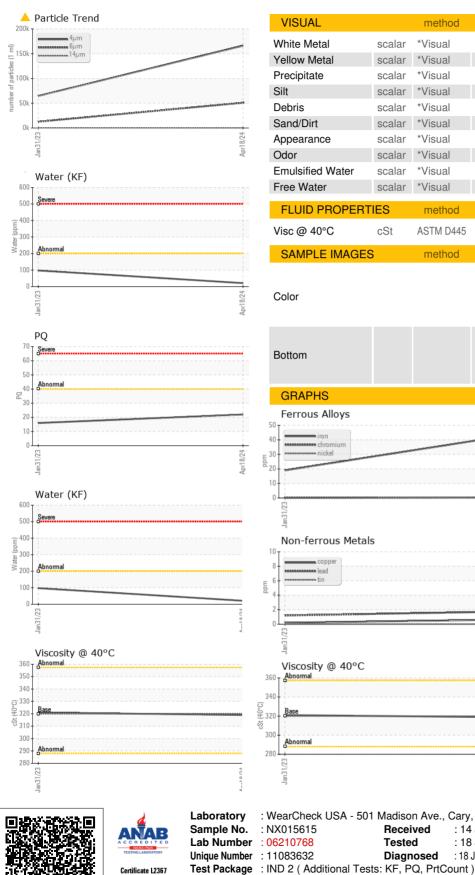
Report Id: NORDEX [WUSCAR] 06210768 (Generated: 06/22/2024 03:45:26) Rev: 1

mg KOH/g ASTM D8045 0.6

0.38 0.35 Contact/Location: DEVIN LINEHAN - NORDEX



OIL ANALYSIS REPORT



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D 2 (Additional Tests: KF, PQ, PrtCount) Contact: DEVIN LINEHAN					ela Borella	_	US 6060

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)

Contact/Location: DEVIN LINEHAN - NORDEX

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