

OIL ANALYSIS REPORT

Area INDIANA CROSSROADS II [200008339] T02 (S/N W-124663)

Wind Turbine Gearbox

Fluid FUCHS RENOLIN CLP ISO 320 (--- LTR)

DIAGNOSIS

Recommendation

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

Wear

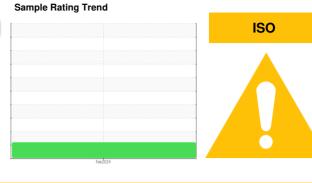
All component wear rates are normal.

Contamination

There is a high amount of 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.



SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06151089		
Sample Date		Client Info		29 Feb 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	>80	21		
Iron	ppm	ASTM D5185m	>150	16		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m		<1		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m	210	0		
Aluminum	ppm	ASTM D5185m	>10	۰ <1		
Lead	ppm	ASTM D5185m		<1		
Copper	ppm	ASTM D5185m	>50	2		
Tin	ppm	ASTM D5185m		2 <1		
Vanadium		ASTM D5185m	20	0		
Cadmium	ppm	ASTM D5185m		0		
	ppm			U		
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		2		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		23		
Phosphorus	ppm	ASTM D5185m		235		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		6313		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7		
Sodium	ppm	ASTM D5185m	>20	4		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.05	0.002		
ppm Water	ppm	ASTM D6304	>500	18		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 85188		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	17		
Particles >21µm		ASTM D7647	>40	4		
Particles >38μm		ASTM D7647	>10	0		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	4 24/20/11		
FLUID DEGRADA		method	limit/base	current	history1	history2
		motiou	in the busic	ourion	motory	notory2

Acid Number (AN) Report Id: NORDEX [WUSCAR] 06151089 (Generated: 04/19/2024 23:05:48) Rev: 1

mg KOH/g ASTM D8045

0.37 Contact/Location: DEVIN LINEHAN - NORDEX



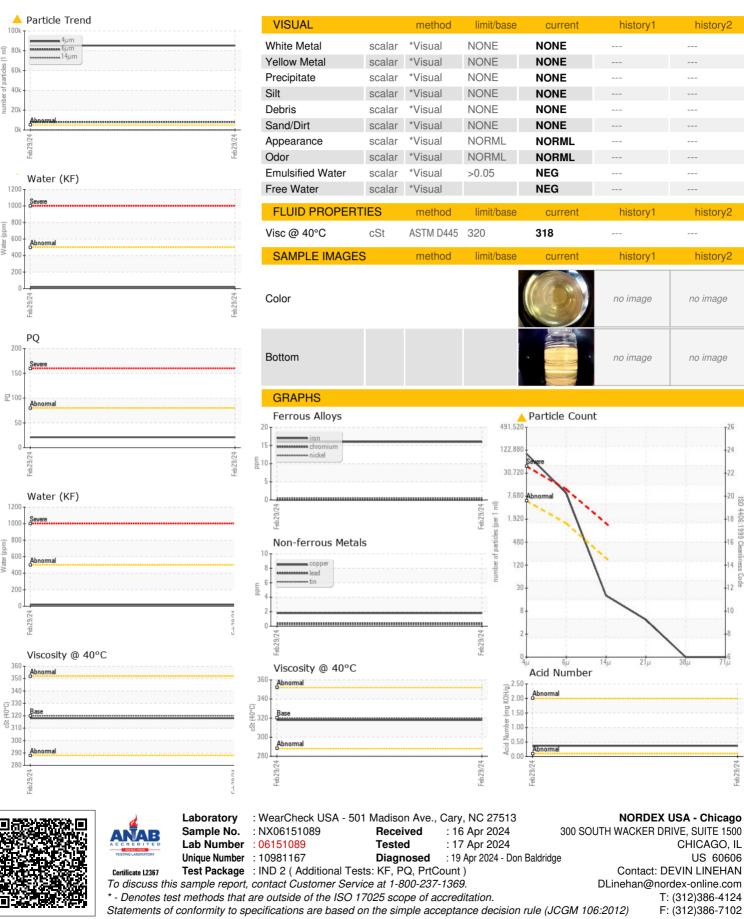
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Contact/Location: DEVIN LINEHAN - NORDEX

21/

history1

history

history1

history2

history

history2

no image

no image

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