

OIL ANALYSIS REPORT

Area **PRIDDY** [200007682] Machine Id **10WEA88844 - B5** Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CKC 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

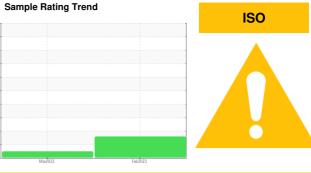
All component wear rates are normal.

Contamination

There is a high amount of 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.



•			Mar2022	Feb2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX011785	NX05593171	
Sample Date		Client Info		23 Feb 2023	15 Mar 2022	
Machine Age	hrs	Client Info		0	1824	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	11	8	
Iron	ppm	ASTM D5185m	>30	13	7	
Chromium	ppm	ASTM D5185m	>3	<1	<1	
Nickel	ppm	ASTM D5185m	>3	0	<1	
Titanium	ppm	ASTM D5185m	>10	0	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>30	0	<1	
Lead	ppm	ASTM D5185m		0	1	
Copper	ppm	ASTM D5185m	>10	<1	<1	
Tin	ppm	ASTM D5185m		< 1	<1	
Vanadium		ASTM D5185m	210	0	0	
	ppm	ASTM D5185m		0	0	
Cadmium	ppm	MCQ1CTIN1CH		-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	9	12	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		1	<1	
Calcium	ppm	ASTM D5185m	17	22	27	
Phosphorus	ppm	ASTM D5185m	200	222	271	
Zinc	ppm	ASTM D5185m		5	0	
Sulfur	ppm	ASTM D5185m	5000	6630	6985	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	14	11	
Sodium	ppm	ASTM D5185m		3	2	
Potassium	ppm	ASTM D5185m	>20	0	- <1	
Water	%	ASTM D6304	>0.02	0.004	0.013	
ppm Water	ppm	ASTM D6304	>200	42.5	138.4	
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5521	63873	
Particles >6µm		ASTM D7647	>320	<u> </u>	2170	
Particles >14µm		ASTM D7647	>40	▲ 119	16	
Particles >21µm		ASTM D7647		<u> </u>	4	
Particles >38µm		ASTM D7647	>3	1	1	
Particles >71µm		ASTM D7647 ASTM D7647		0	1	
Oil Cleanliness		ISO 4406 (c)	>/15/12	0 <u> </u> 20/18/14	23/18/11	
		()				
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	ma K∩⊔/a	VOLU USU	0.0	0.24	0.44	

Acid Number (AN) mg KOH/g

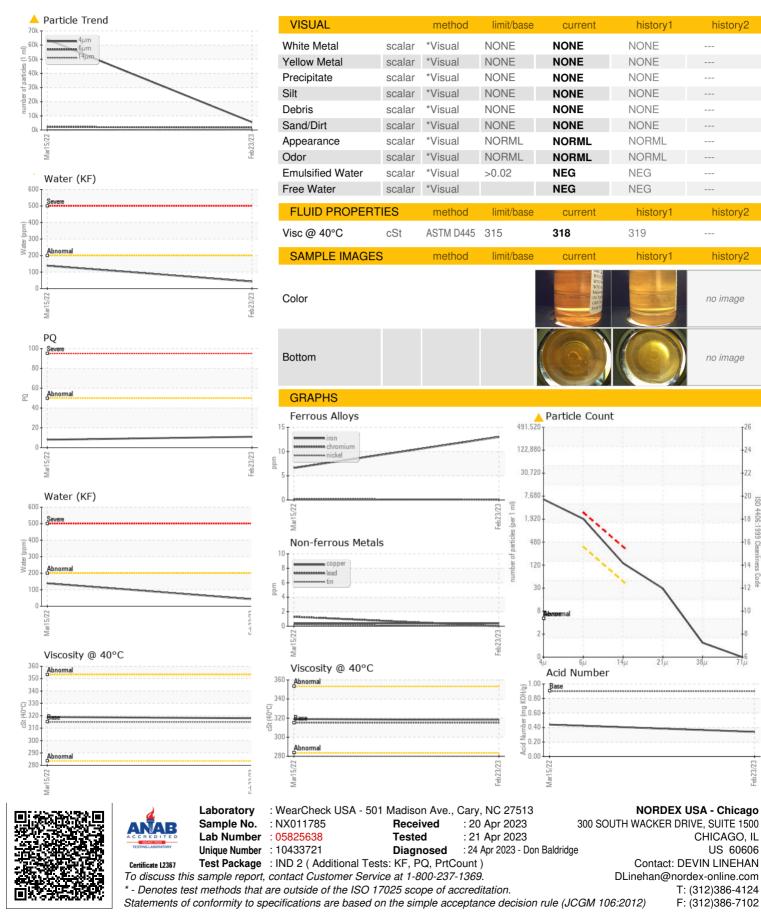
mg KOH/g ASTM D8045 0.9

0.34 0.44

Contact/Location: DEVIN LINEHAN - NORDEX



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