

OIL ANALYSIS REPORT

Area AURORA [200006927] 41WEA87245 (S/N A5E39737038A) Component

Wind Turbine Gearbox Elui

FUCHS RENOLIN CLP ISO 320 (--- LTR)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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



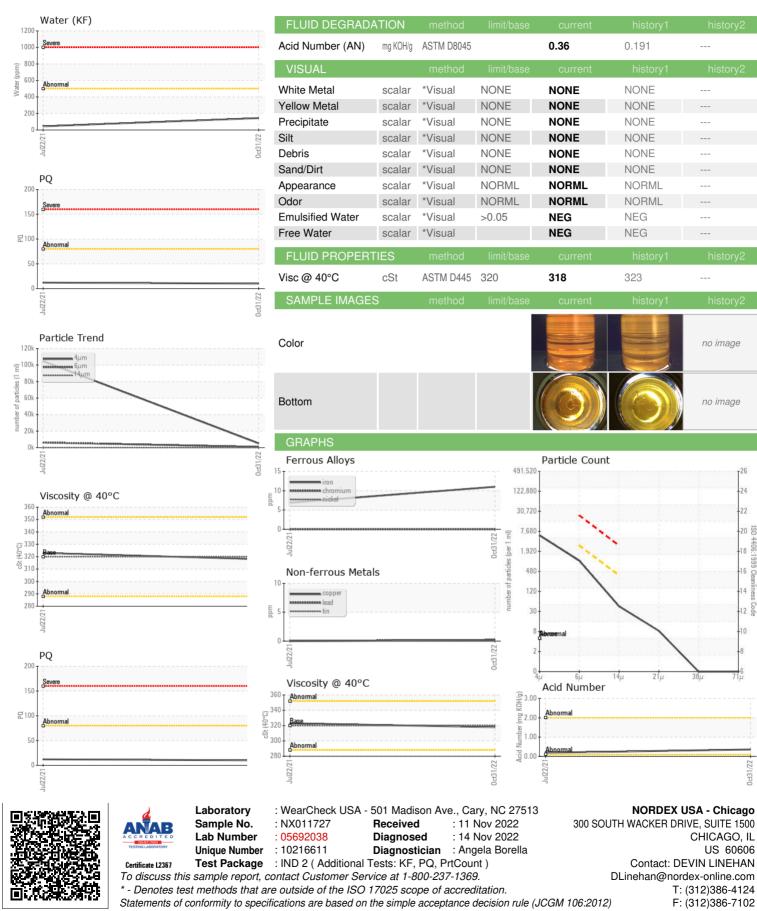
Sample Rating Trend



SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX011727	NX008369	
Sample Date		Client Info		31 Oct 2022	22 Jul 2021	
Machine Age	hrs	Client Info		12993	1192	
Oil Age	hrs	Client Info		11690	500	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	10	12	
Iron	ppm	ASTM D5185m	>150	11	7	
Chromium	ppm	ASTM D5185m	>5	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m	>10	0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	0	1	
Lead	ppm	ASTM D5185m	>20	<1	0	
Copper	ppm	ASTM D5185m	>50	<1	0	
Tin	ppm	ASTM D5185m	>3	0	0	
Antimony	ppm	ASTM D5185m	>3		0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	9	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		19	16	
Phosphorus	ppm	ASTM D5185m		194	191	
Zinc	ppm	ASTM D5185m		3	0	
Sulfur	ppm	ASTM D5185m		5483	4131	
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7	6	
Sodium	ppm	ASTM D5185m	>20	<1	1	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.05	0.014	0.004	
ppm Water	ppm	ASTM D6304	>500	143.9	44.8	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5042	104677	
Particles >6µm		ASTM D7647	>2500	888	<u> </u>	
Particles >14µm		ASTM D7647	>320	38	103	
Particles >21µm		ASTM D7647	>80	7	13	
Particles >38µm		ASTM D7647	>20	0	0	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>/18/15	20/17/12	▲ 24/20/14	



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Contact/Location: DEVIN LINEHAN - NORDEX

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