

OIL ANALYSIS REPORT

Area BLACKJACK CREEK [700007683] 88432 - J-01

Component Wind Turbine Gearbox Fluid FUCHS RENOLIN CLP ISO 320 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

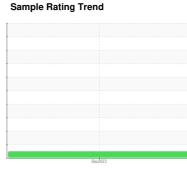
All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





NORMAL

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015711		
Sample Date		Client Info		12 Dec 2023		
Machine Age	hrs	Client Info		1381566		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
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WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	11		
Iron	ppm	ASTM D5185m		30		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m		<1		
Copper	ppm	ASTM D5185m	>50	<1		
Tin	ppm	ASTM D5185m	>3	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		8		
Phosphorus	ppm	ASTM D5185m		180		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4879		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11		
Sodium	ppm	ASTM D5185m	>20	2		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.007		
ppm Water	ppm	ASTM D6304	>500	78		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6023		
Particles >6µm		ASTM D7647	>2500	397		
Particles >14µm		ASTM D7647	>320	14		
Particles >21µm		ASTM D7647	>80	5		
Particles >38µm		ASTM D7647	>20	1		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>/18/15	20/16/11		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

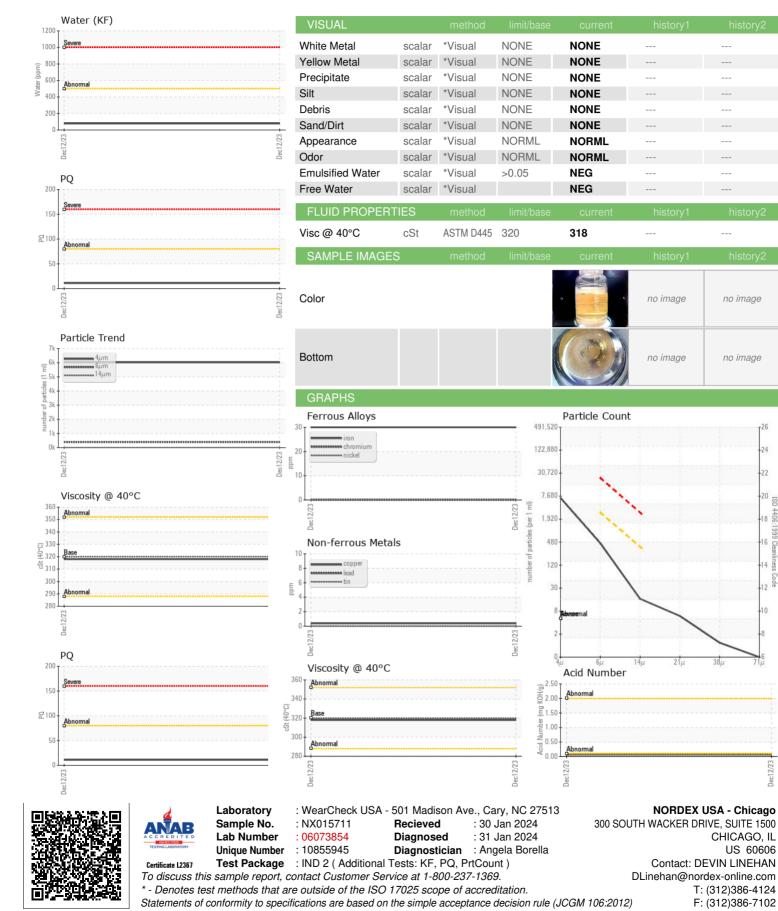
Acid Number (AN) mg KOH/g ASTM D8045 Report Id: NORDEX [WUSCAR] 06073854 (Generated: 01/31/2024 14:19:13) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX

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OIL ANALYSIS REPORT



Contact/Location: DEVIN LINEHAN - NORDEX

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