

OIL ANALYSIS REPORT

Area EL SAUZ Machine Id G03WEA90040 (S/N W-122969)

Component Wind Turbine Gearbox

FUCHS RENOLIN CLP ISO 320 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

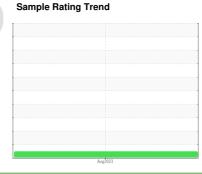
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. 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 suitable for further service.





NORMAL

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014524		
Sample Date		Client Info		04 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	12		
Iron	ppm	ASTM D5185m	>150	23		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>20	1		
Copper	ppm	ASTM D5185m	>50	<1		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	pp	method	limit/base			history?
			innii/base	current	history1	history2
Boron	ppm	ASTM D5185m		1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		16		
Phosphorus	ppm	ASTM D5185m		211		
Zinc	ppm	ASTM D5185m		5		
Sulfur	ppm	ASTM D5185m		4888		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7		
Sodium	ppm	ASTM D5185m	>20	<1		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.05	0.003		
ppm Water	ppm	ASTM D6304	>500	31.9		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1835		
Particles >6µm		ASTM D7647	>2500	464		
Particles >14µm		ASTM D7647	>320	29		
Particles >21µm		ASTM D7647	>80	7		
Particles >38µm		ASTM D7647	>20	2		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>/18/15	18/16/12		
FLUID DEGRAD	ATION _	method	limit/base	current	history1	history2

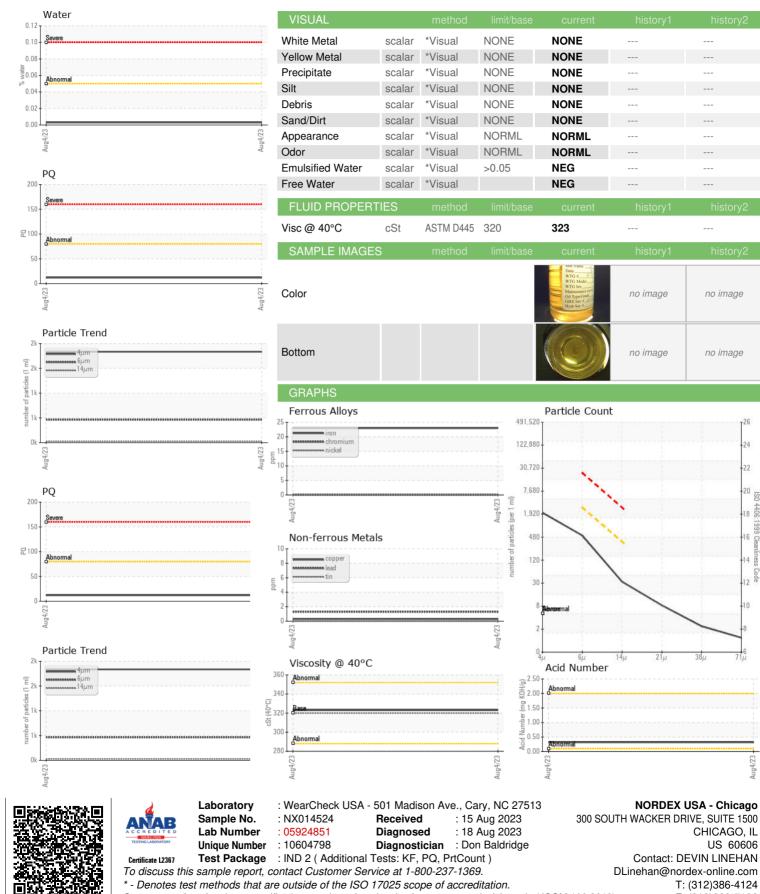
Acid Number (AN) mg KOH/g ASTM D8045 Report Id: NORDEX [WUSCAR] 05924851 (Generated: 08/18/2023 09:02:11) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX

0.32



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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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