

OIL ANALYSIS REPORT

MARYNEAL [200006807] 87020 SITE 41 Component

Wind Turbine Gearbox Elu

FUCHS RENOLIN UNISYN CLP 320 (650 LTR

DIAGNOSIS

A 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.

R)				Jul2023		
SAMPLE INFORM		method	limit/base		biotonut	history?
			IIIIIVDase	current	history1	history2
Sample Number		Client Info		NX06054851		
Sample Date		Client Info		13 Jul 2023		
Machine Age	hrs	Client Info		0		
Dil Age	hrs	Client Info Client Info		0 N/A		
Oil Changed		Client Inio		ABNORMAL		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	12		
Iron	ppm	ASTM D5185m	>55	6		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>15	0		
_ead	ppm	ASTM D5185m	>3	0		
Copper	ppm	ASTM D5185m	>7	0		
Гin	ppm	ASTM D5185m	>3	0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		0		
Nolybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		12		
Phosphorus	ppm	ASTM D5185m		206		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4935		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		6		
Sodium	ppm	ASTM D5185m	>00	4		
Potassium	ppm	ASTM D5185m	>20	- <1		
Vater	%	ASTM D510301		0.003		
opm Water	ppm	ASTM D6304	>200	37		
FLUID CLEANLIN		method	limit/base	current	history1	history2
	00	ASTM D7647	minubase	4917		
Particles >4μm Particles >6μm		ASTM D7647 ASTM D7647	>320	4917 1500		
Particles >6µm		ASTM D7647 ASTM D7647	>320	▲ 1500 ▲ 98		
Particles >21µm		ASTM D7647 ASTM D7647	>40 >10	▲ 90 ▲ 20		
Particles >38µm		ASTM D7647 ASTM D7647	>3	0		
Particles >71µm		ASTM D7647 ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	↓ 19/18/14		
		()				
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.6	0.44		

Contact/Location: DEVIN LINEHAN - NORDEX

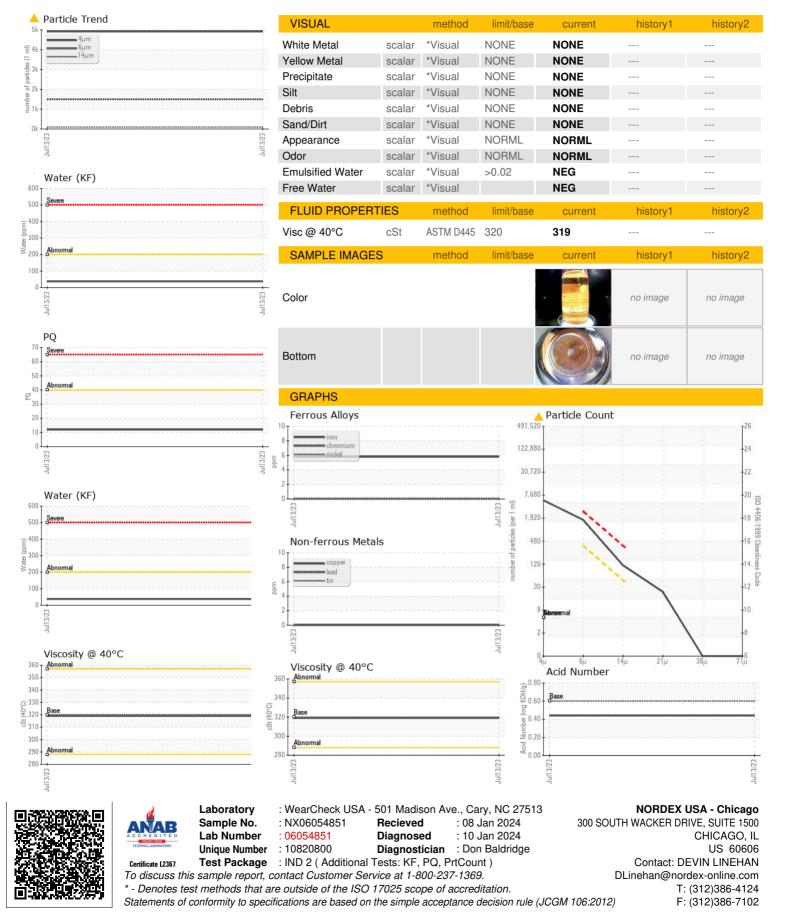
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Sample Rating Trend





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