

OIL ANALYSIS REPORT

Area **EL** SAUZ [200007686] Machine Id **I05-58WEA90055 (S/N W-123192)** Component

Wind Turbine Gearbox

Fluid FUCHS RENOLIN UNISYN CLP 320 (--- LTR)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015088		
Sample Date		Client Info		01 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	19		
Iron	ppm	ASTM D5185m	>55	48		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>15	<1		
Lead	ppm	ASTM D5185m	>3	0		
Copper	ppm	ASTM D5185m	>7	1		
Tin	ppm	ASTM D5185m		<1		
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		2		
Calcium	ppm	ASTM D5185m		- 17		
Phosphorus	ppm	ASTM D5185m		239		
Zinc	ppm	ASTM D5185m		9		
Sulfur	ppm	ASTM D5185m		5 6166		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	7		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	4		
Water	%	ASTM D5105III		0.004		
ppm Water	70 ppm	ASTM D0304 ASTM D6304	>200	49		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		49629		
Particles >6µm		ASTM D7647	>320	<u> </u>		
Particles >14µm		ASTM D7647	>40	37		
Particles >21µm		ASTM D7647		6		
Particles >38µm		ASTM D7647	>3	1		
Particles >71µm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	▲ 23/20/12		
FLUID DEGRADA		method	limit/base		historyt	history
				current	history1	history2
	ma 1/1711/-			0.00		

Acid Number (AN) mg KOH/g As

mg KOH/g ASTM D8045 0.6

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Sample Rating Trend





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Water

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Mater

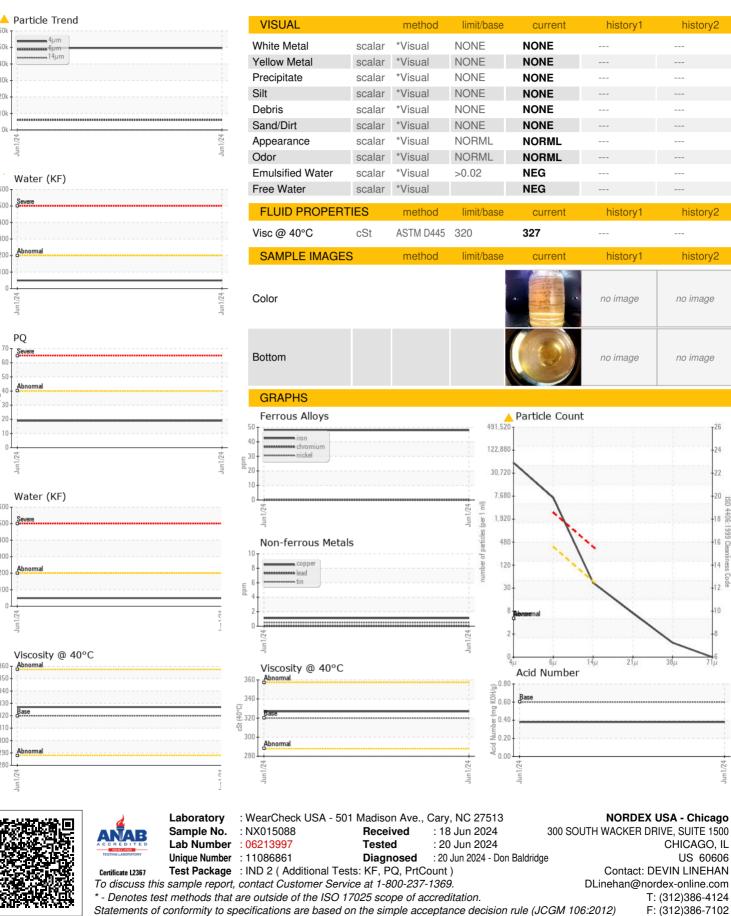
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