

OIL ANALYSIS REPORT

Area AZURE SKY [200007684] Machine Id T-18

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 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. 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.

Juni 1214

Sample Rating Trend



NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054845		
Sample Date		Client Info		07 Jan 2024		
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	>40	13		
Iron	ppm	ASTM D5185m	>55	7		
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		
Lead	ppm	ASTM D5185m	>3	0		
Copper	ppm	ASTM D5185m	>7	0		
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		5		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		14		
Phosphorus	ppm	ASTM D5185m		198		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		4761		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.02	0.003		
ppm Water	ppm	ASTM D6304		26		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1391		
Particles >6µm		ASTM D7647	>320	222		
Particles >14µm		ASTM D7647	>40	26		
Particles >21µm		ASTM D7647	>10	8		
Particles >38µm		ASTM D7647	>3	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/15/12	18/15/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045 0.6

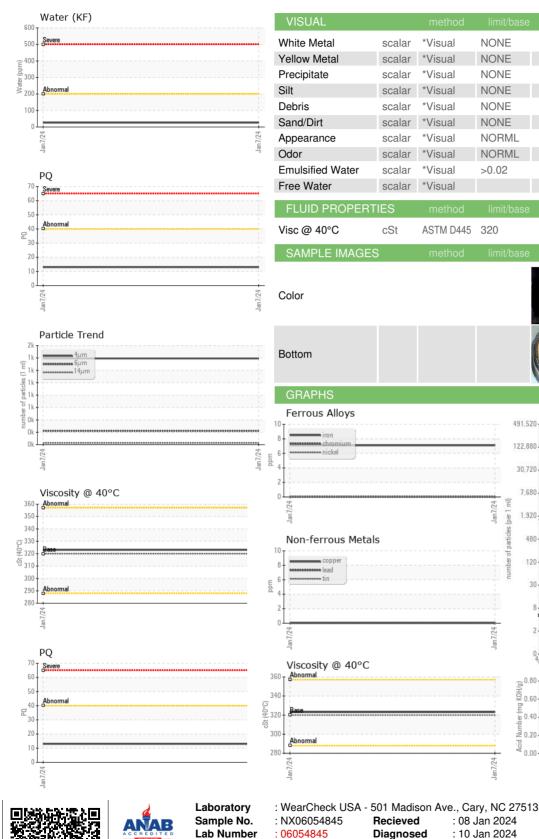
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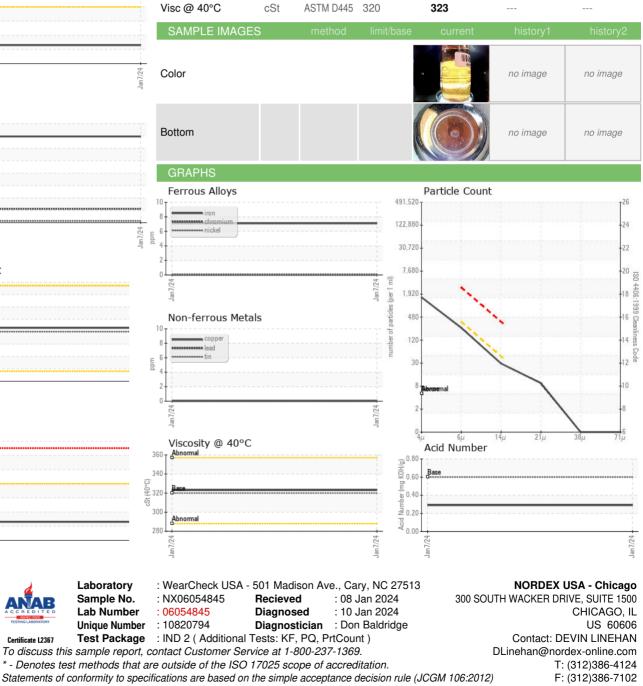
Contact/Location: DEVIN LINEHAN - NORDEX

Report Id: NORDEX [WUSCAR] 06054845 (Generated: 01/10/2024 10:55:14) Rev: 1



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NONE

NONE

NONE

NONE NONE

NONE

NORML

NORML

NEG

NEG

Certificate L2367

Unique Number

: 10820794

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount)

Contact/Location: DEVIN LINEHAN - NORDEX