

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# Area EOLUS SAFE HARBOUR PORT Machine Id 11425273

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

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

## Fluid Condition

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

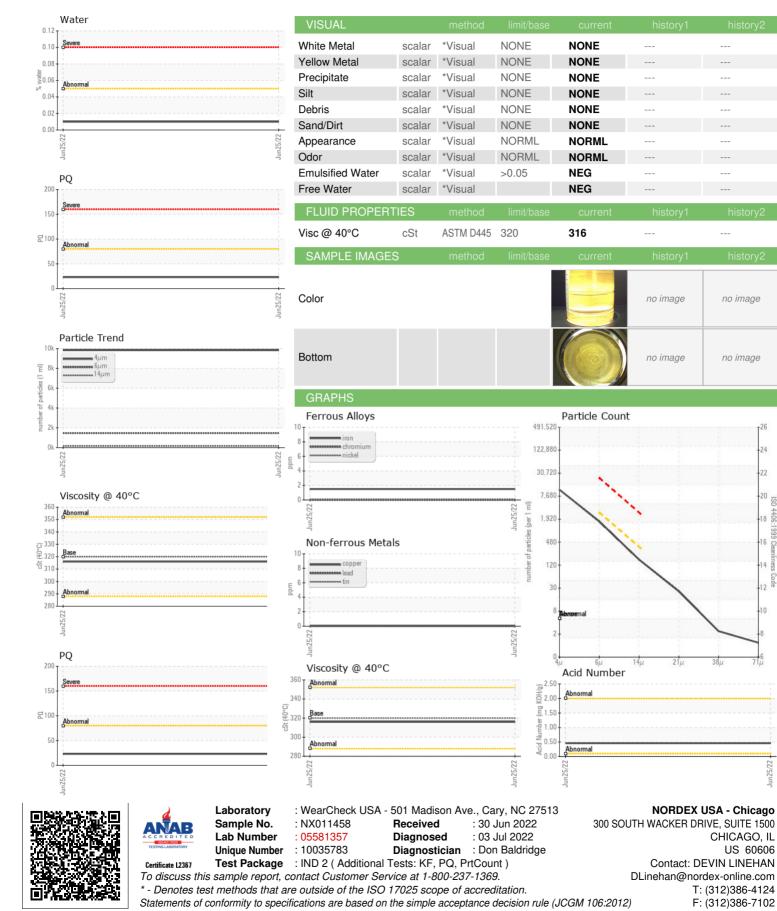
				Jun2022		
SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		NX011458		
Sample Date		Client Info		25 Jun 2022		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	23		
Iron	ppm	ASTM D5185m	>150	2		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead			>20	0		
Copper	ppm	ASTM D5185m	>20	0		
	ppm		>50	-		
Tin Vanadium	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		17		
Phosphorus	ppm	ASTM D5185m		185		
Zinc	ppm	ASTM D5185m		4		
Sulfur	ppm	ASTM D5185m		4528		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4		
Sodium	ppm	ASTM D5185m	>20	0		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304		0.010		
ppm Water	ppm	ASTM D6304	>500	105.2		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9828		
Particles >6µm		ASTM D7647 ASTM D7647	>2500	1469		
Particles >0µm		ASTM D7647 ASTM D7647	>320	1409		
Particles >21µm		ASTM D7647 ASTM D7647		22		
Particles >38µm		ASTM D7647	>20	2		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>/18/15	20/18/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46		
01.02) Boy: 1				Contract/Leontia		

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