

OIL ANALYSIS REPORT

Area EOLUS SAFE HARBOUR PORT Machine Id 11425272

Component Wind Turbine Gearbox Fluid FUCHS RENOLIN CLP ISO 320 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

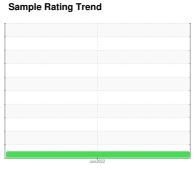
All component wear rates are normal.

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.





NORMAL

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX011459		
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	20		
Iron	ppm	ASTM D5185m	>150	1		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm		>10	0		
Titanium	ppm	ASTM D5185m	210	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>20 >50	0		
Tin	ppm	ASTM D5185m	>50	0		
Vanadium		ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
Caumium	ppm	ASTIVI DOTODIII		U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4		
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		192		
Zinc	ppm	ASTM D5185m		3		
Sulfur	ppm	ASTM D5185m		4586		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7		
Sodium	ppm	ASTM D5185m	>20	0		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	0.007		
ppm Water	ppm	ASTM D6304	>500	73.9		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6643		
Particles >6µm		ASTM D7647	>2500	747		
Particles >14µm		ASTM D7647	>320	74		
Particles >21µm		ASTM D7647	>80	19		
Particles >38µm		ASTM D7647	>20	7		
Particles >71µm		ASTM D7647	>4	4		
Oil Cleanliness		ISO 4406 (c)	>/18/15	20/17/13		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

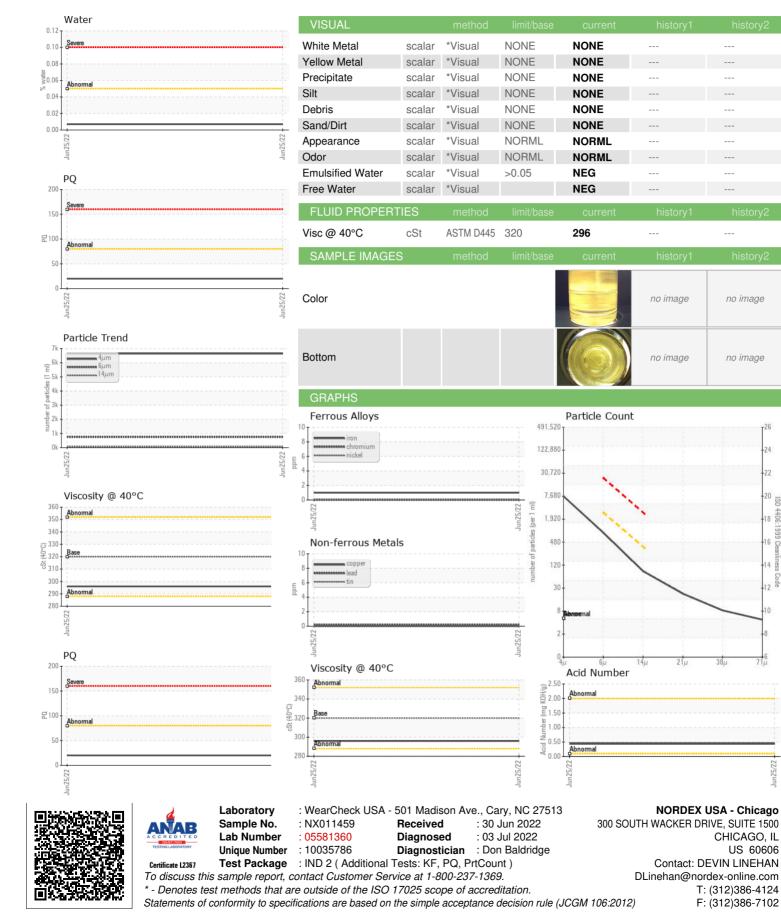
Acid Number (AN) mg KOH/g ASTM D8045 Report Id: NORDEX [WUSCAR] 05581360 (Generated: 08/30/2023 13:02:09) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX

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Contact/Location: DEVIN LINEHAN - NORDEX

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