

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area MARYNEAL [200006807] Machine Id 87042 SITE 8

Component Wind Turbine Gearbox Fluid FUCHS RENOLIN CLP ISO 320 (650 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.

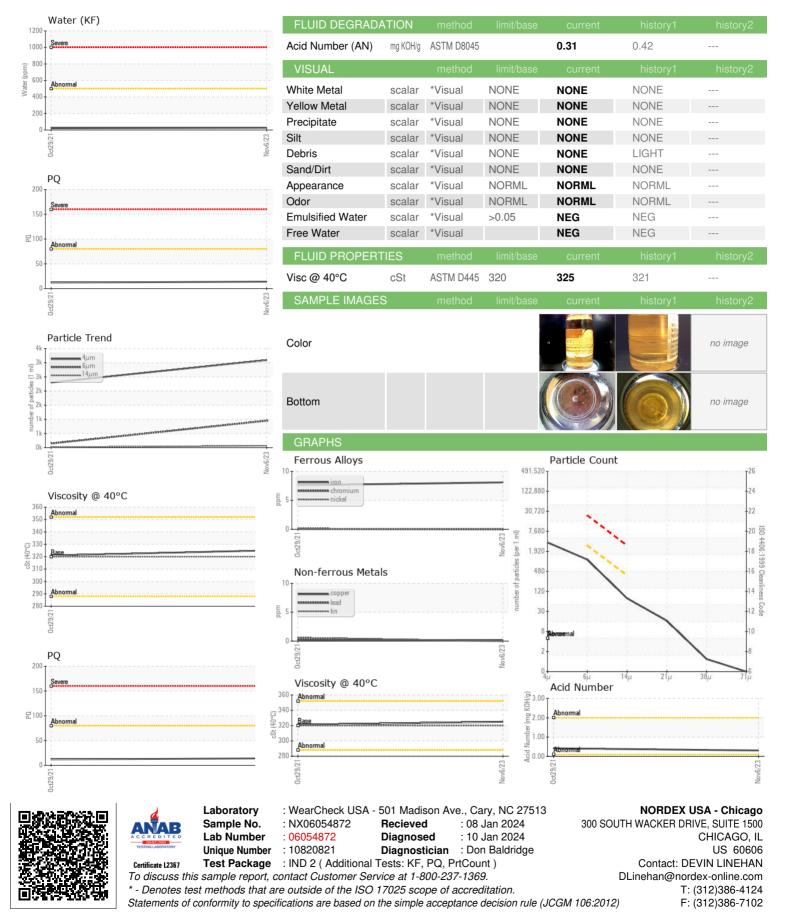
Fluid Condition

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

			0ct2021	Nov2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX06054872	NX009590	
Sample Date		Client Info		06 Nov 2023	29 Oct 2021	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	14	12	
Iron	ppm	ASTM D5185m	>150	8	8	
Chromium	ppm	ASTM D5185m	>5	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m	>10	0	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>20	0	<1	
Copper	ppm	ASTM D5185m	>50	<1	<1	
Tin	ppm	ASTM D5185m	>3	0	<1	
Antimony	ppm	ASTM D5185m	>3		0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	8	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		8	18	
Phosphorus	ppm	ASTM D5185m		165	191	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		4173	3756	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	8	
Sodium	ppm	ASTM D5185m	>20	5	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	%	ASTM D6304	>0.05	0.003	0.002	
ppm Water	ppm	ASTM D6304	>500	27	21.3	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3091	2301	
Particles >6µm		ASTM D7647	>2500	951	146	
Particles >14µm		ASTM D7647	>320	66	18	
Particles >21µm		ASTM D7647	>80	14	6	
Particles >38µm		ASTM D7647	>20	1	0	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>/18/15	19/17/13	18/14/11	



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Contact/Location: DEVIN LINEHAN - NORDEX