

# **OIL ANALYSIS REPORT**

# PRIDDY [200005313] 48WEA88850 (S/N EWP-03112)

**Wind Turbine Gearbox** 

**FUCHS RENOLIN CLP ISO 320 (--- LTR)** 



Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor.

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.

			Apr2022	Jun <b>2</b> 023		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX010170	NX05593173	
Sample Date		Client Info		12 Jun 2023	08 Apr 2022	
Machine Age	hrs	Client Info		0	2128	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	14	14	
Iron	ppm	ASTM D5185m	>150	14	7	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>10	1	<1	
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	1	2	
Copper	ppm	ASTM D5185m	>50	0	<1	
	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	8	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
-	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m		23	22	
•	ppm	ASTM D5185m		223	210	
	ppm	ASTM D5185m		0	<1	
Sulfur	ppm	ASTM D5185m		6469	5078	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	7	
Sodium	ppm	ASTM D5185m	>20	2	2	
	ppm	ASTM D5185m	>20	4	<1	
	%	ASTM D6304	>0.05	0.006	0.017	
ppm Water	ppm	ASTM D6304	>500	65.2	171.7	
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		1644	92881	
Particles >6μm		ASTM D7647	>2500	312	▲ 5037	
Particles >14μm		ASTM D7647	>320	30	19	
Particles >21µm		ASTM D7647	>80	7	6	
Particles >38μm		ASTM D7647	>20	1	1	
Particles >71μm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>/18/15	18/15/12	<u>4</u> 24/20/11	
FLUID DEGRADAT	TION	method	limit/base	current	history1	history2



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