

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area MARYNEAL [200006807] Machine Id 87021 SITE 2 Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (650 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

current		
	history1	history2
(06054855	NX009278	
Jul 2023	10 Jan 2022	
	0	
	0	
Α	N/A	
BNORMAL	ABNORMAL	
current	history1	history2
12	16	
5	14	
0	<1	
0	0	
0	0	
0	<1	
0	11	
2	<1	
<1	<1	
0	<1	
	0	
0	0	
0	0	
current	history1	history2
4	8	
0	0	
0	0	
0	<1	
0	0	
10	19	
177	206	
0	0	
4489	4093	
current	history1	history2
16	10	
4	0	
0	<1	
0.002	0.003	
25	25.7	
current	history1	history2
14074	201157	
3680	48496	
283	235	
	33	
	0	
1	0	
	0	
	current 14074 3680 283 54 1	current history1 14074 201157 3680 ▲ 48496 283 235 54 33 1 0



OIL ANALYSIS REPORT

	FLUID DEGRAD	ATION	method	limit/base	current	history1	histor
4μm 	Acid Number (AN)	mg KOH/g	ASTM D8045	0.6	0.33	0.37	
	VISUAL		method	limit/base	current	history1	histor
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
7770	-	scalar	*Visual	NONE	NONE	NONE	
ZZ/UT Inc.	Debris	scalar	*Visual	NONE	LIGHT	LIGHT	
Water (KF)	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
Severe 9	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.02	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
Abnormal	FLUID PROPER	FIES	method	limit/base	current	history1	histor
	Visc @ 40°C	cSt	ASTM D445	320	318	317	
		S	method	limit/base	current	history1	histor
	5						
2Q Severe	Color						no imag
Abnormal				1	A CONTRACT		
	Bottom						no imag
	GRAPHS						
77/01 uer	Ferrous Alloys				Particle Coun	:	
	15 15 iron			491,520			
Water (KF)	10-			122,880	-		
Sources	5-			30,720			
Severe G	0	*****					
	Jan 10/22			(per 1 ml 056'1			
Abnormal	,	L		6			
0-11-11-11-11-11-11-11-11-11-11-11-11-11	Non-ferrous Meta	IS		offine 480	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	copper			jo ang 120	† ``		
77 0	8. 5-			a 30	-		
77/i) Lubr	***************************************			8	Bioreman		
/iscosity @ 40°C	0/22			2/53	I		
Abnormal	Jan1(Jul26/23			-
	Viscosity @ 40°C			4	ہوں۔ Acid Number	14μ 21μ	38µ 7
	360 Abnormal			。 第0.80	Τ		
Base	340 - Base			(DHO) 0.60	Base		
	°€ 320 - Base 300 - Abaamad			ba 0.40			
lbnormal	Abnormai			NU 0.20	1		
	280			00.0 Acid	0/22		
	Jan 10/22			Jul26/23	Jan 10/22		
, 				NO 077 (5		Non-	
Laboratory	: WearCheck USA - : NX06054855	501 Madia Recieve o		ıry, NC 27513 Jan 2024		NORDEX L JTH WACKER DRI	
		Recieved Diagnos		Jan 2024 Jan 2024	300 500		CHICAG
Sample No.							
Sample No. Lab Number Unique Number		•	t ician : Dor	n Baldridge			US 60
Lab Number	er :10820804 e :IND 2(Additional T	Diagnost ests: KF,	PQ, PrtCour	nt)		Contact: DE DLinehan@nord	VIN LINE

Contact/Location: DEVIN LINEHAN - NORDEX