

OIL ANALYSIS REPORT

Area BLACKJACK CREEK [200007683] WEA88424 - H-01

Wind Turbine Gearbox

Fluid FUCHS RENOLIN UNISYN CLP 320 (--- LTR)

DIAGNOSIS

A Recommendation

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. Resample at the next service interval to monitor.

🔺 Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

			11 11 11			
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015618		
Sample Date		Client Info		16 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	22		
Iron	ppm	ASTM D5185m	>30	<u> </u>		
Chromium	ppm	ASTM D5185m	>3	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>10	<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	2		
Lead	ppm	ASTM D5185m	>15	2		
Copper	ppm	ASTM D5185m	>10	2		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		13		
Phosphorus	ppm	ASTM D5185m		228		
Zinc	ppm	ASTM D5185m		13		
Sulfur	ppm	ASTM D5185m		4805		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	1 5		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.02	0.003		
opm Water	ppm	ASTM D6304	>200	37		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT

limit/base

limit/base

limit/base

current

LIGHT

NONE

NONE

NONE

MODER

NONE

NORML

NORML

current

current

Acid Number

(D) 0.8

H 0.6

0.4

0.20

0.00

Acid

Apr16/24 -

NEG

NEG

319

history1

history

history1

no image

no image

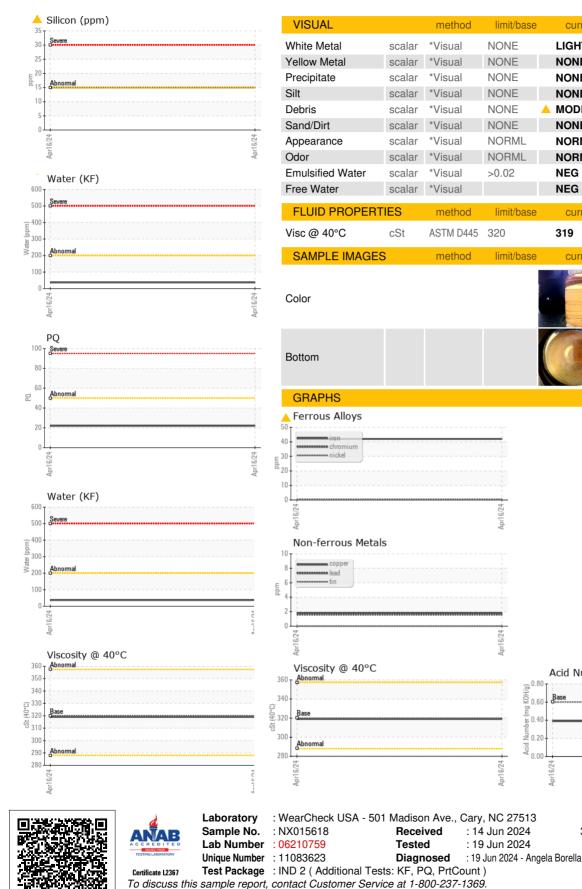
history2

history

history2

no image

no imade



NORDEX USA - Chicago 300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL US 60606 Contact: DEVIN LINEHAN DLinehan@nordex-online.com T: (312)386-4124 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (312)386-7102 Contact/Location: DEVIN LINEHAN - NORDEX

Report Id: NORDEX [WUSCAR] 06210759 (Generated: 06/22/2024 21:57:01) Rev: 1

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Page 2 of 2