

OIL ANALYSIS REPORT

PRIDDY [200005313] 29WEA88864 (S/N EWP-02973)

Wind Turbine Gearbox



Sample Rating Trend



DIAGNOSIS	
Recommendation	1

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		NX010243	NX05593192	
Sample Date		Client Info		31 May 2023	09 Mar 2022	
Machine Age	hrs	Client Info		13222	1940	
Oil Age	hrs	Client Info		0	1940	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history 1	history 2
PQ		ASTM D8184	>80	9	21	
Iron	ppm	ASTM D0104		15	6	
Chromium		ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m		1	<1	
Titanium	ppm				0	
	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m	4.0	-	<1	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m		2	1	
Copper	ppm	ASTM D5185m	>50	0	<1	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		6	7	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		24	20	
Phosphorus	ppm	ASTM D5185m		222	217	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		6467	5145	
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>50	2	4	
Sodium	ppm	ASTM D5185m	>20	3	2	
Potassium	ppm	ASTM D5185m	>20	4	<1	
Water	%	ASTM D6304	>0.05	0.005	0.011	
ppm Water	ppm	ASTM D6304	>500	58.4	114.4	
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		189	52049	
Particles >6µm		ASTM D7647	>2500	53	931	
Particles >14µm		ASTM D7647	>320	10	10	
Particles >21µm		ASTM D7647	>80	3	4	
Particles >38µm		ASTM D7647	>20	1	0	
Particles >71µm		ASTM D7647	>4	1	0	
Oil Cleanliness		ISO 4406 (c)	>/18/15	15/13/10	23/17/10	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2

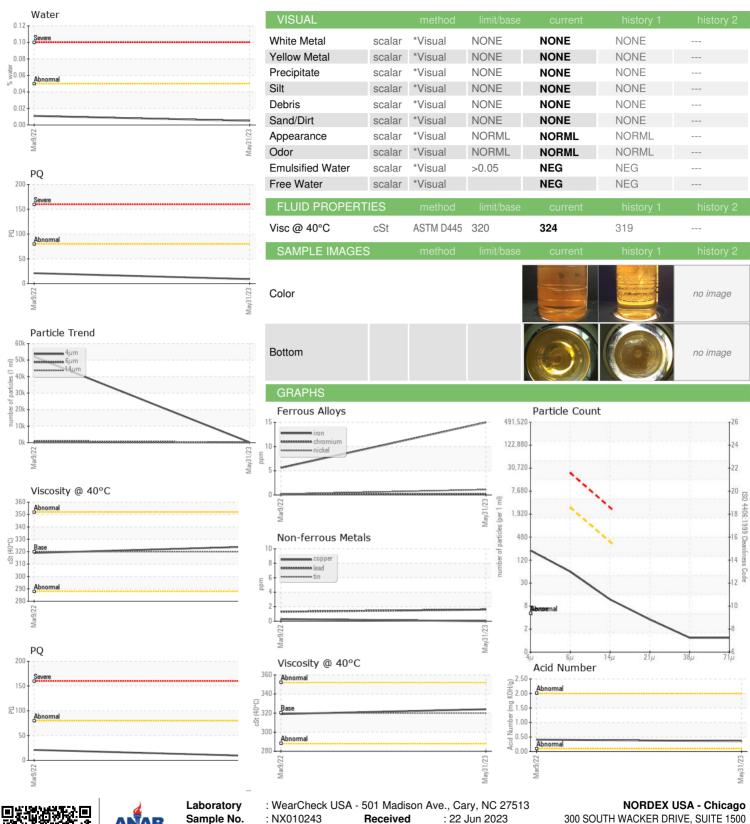
Acid Number (AN)

mg KOH/g ASTM D8045

0.41



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

: NX010243 : 05881447

: 10526550

Received Diagnosed

: 30 Jun 2023 Diagnostician : Jonathan Hester **Test Package**: IND 2 (Additional Tests: KF, PQ, PrtCount)

300 SOUTH WACKER DRIVE, SUITE 1500

CHICAGO, IL US 60606

Contact: DEVIN LINEHAN DLinehan@nordex-online.com T: (312)386-4124

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. 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