

RECOMMENDATION

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

PROBLEMATIC TEST F	RESULTS				
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>320	<u> </u>	1 759	A 23975
Particles >14µm	ASTM D7647	>40	<mark>人</mark> 85	176	A 396
Particles >21µm	ASTM D7647	>10	<u> </u>	4 9	4 9
Oil Cleanliness	ISO 4406 (c)	>/15/12	A 22/19/14	🔺 20/18/15	🔺 24/22/16

Customer Id: NORDEX Sample No.: NX05933548 Lab Number: 05933548 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> ISO

RECOMMENDED AC	CTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

12 Dec 2022 Diag: Jonathan Hester

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



21 Jun 2022 Diag: Don Baldridge



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area IRON STAR [200006142] Machine Id 41WEA88320 Component

Wind Turbine Gearbox Fluid GEAR OIL (PAO) ISO 320 (--- LTR)

DIAGNOSIS

A 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.

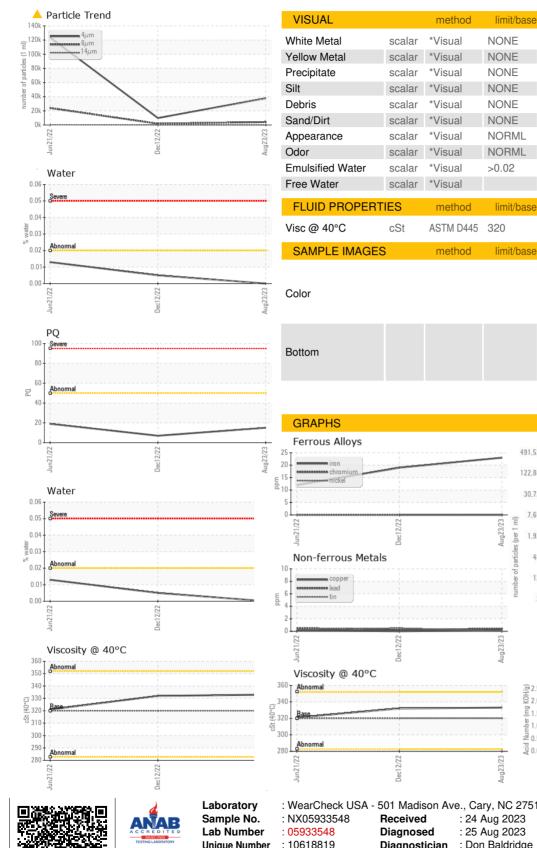
		Ju	n2022	Dec2022 Aug20	123	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05933548	NX05739630	NX05596456
Sample Date		Client Info		23 Aug 2023	12 Dec 2022	21 Jun 2022
lachine Age	hrs	Client Info		0	0	0
Dil Age	hrs	Client Info		0	0	0
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	15	7	19
ron	ppm	ASTM D5185m	>30	23	19	12
Chromium	ppm	ASTM D5185m	>3	0	0	0
lickel	ppm	ASTM D5185m	>3	0	0	0
ītanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>30	0	0	0
ead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>10	<1	0	<1
în	ppm	ASTM D5185m	>10	0	<1	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	6	10	9
Barium	ppm	ASTM D5185m	12	2	0	0
lolybdenum	ppm	ASTM D5185m	5	0	0	0
langanese	ppm	ASTM D5185m		<1	<1	<1
/lagnesium	ppm	ASTM D5185m	25	0	0	<1
Calcium	ppm	ASTM D5185m	25	20	20	16
hosphorus	ppm	ASTM D5185m	375	212	218	172
linc	ppm	ASTM D5185m	25	8	5	1
Sulfur	ppm	ASTM D5185m	4900	5441	5747	4619
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	11	10	8
Sodium	ppm	ASTM D5185m		0	3	<1
otassium	ppm	ASTM D5185m	>20	2	0	1
Vater	%	ASTM D6304	>0.02	0.00	0.005	0.013
pm Water	ppm	ASTM D6304	>200	0.00	59.8	130.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		37869	9813	123693
Particles >6µm		ASTM D7647	>320	<u> </u>	1 759	A 23975
Particles >14µm		ASTM D7647	>40	<mark> 8</mark> 5	176	A 396
Particles >21µm		ASTM D7647	>10	<u> </u>	4 9	4 9
Particles >38µm		ASTM D7647	>3	1	<u> </u>	4
Particles >71µm		ASTM D7647	>3	0	0	1
Dil Cleanliness		ISO 4406 (c)	>/15/12	A 22/19/14	🔺 20/18/15	▲ 24/22/16
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
cid Number (AN)	mg KOH/g	ASTM D8045	1.10	0.37	0.32	0.21
21.21) Boy: 1						

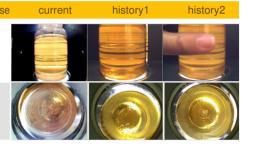
Report Id: NORDEX [WUSCAR] 05933548 (Generated: 08/25/2023 20:21:21) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX



OIL ANALYSIS REPORT





history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NFG

NEG

332

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

NEG

NEG

333

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

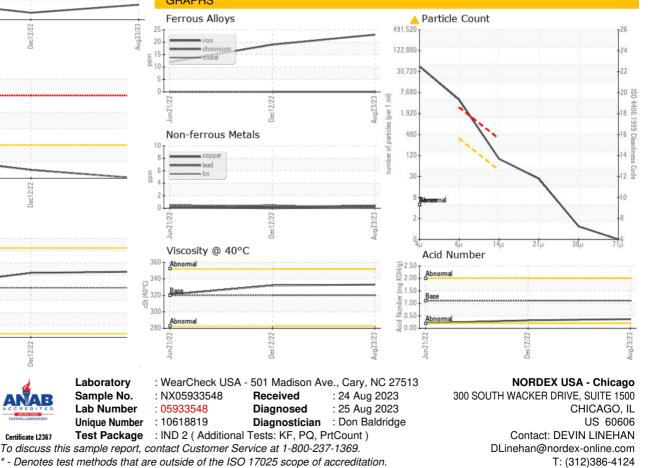
NORML

history2

NEG

NEG

321



* - 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)

Certificate L2367

F: (312)386-7102