

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

#### Area IRON STAR [200006142] Machine Id 39WEA88284

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

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.

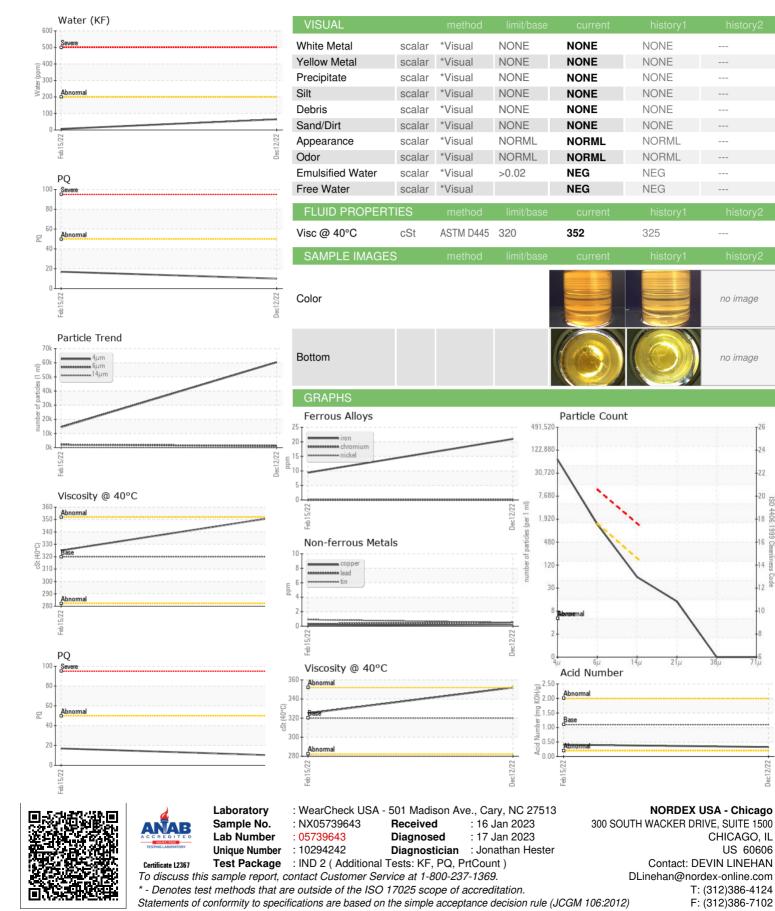
			Feb2022	Dec2022		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05739643	NX05491175	
Sample Date		Client Info		12 Dec 2022	15 Feb 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	10	17	
Iron	ppm	ASTM D5185m	>30	21	9	
Chromium	ppm	ASTM D5185m	>3	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
	ppm	ASTM D5185m	>10	0	0	
	ppm	ASTM D5185m		0	<1	
	ppm	ASTM D5185m	>30	0	<1	
	ppm	ASTM D5185m		<1	<1	
	• •	ASTM D5185m		<1	<1	
	ppm			<1	<1	
	ppm	ASTM D5185m	>10			
	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	8	10	
Barium	ppm	ASTM D5185m	12	0	0	
Molybdenum	ppm	ASTM D5185m	5	0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	25	0	0	
Calcium	ppm	ASTM D5185m	25	18	20	
Phosphorus	ppm	ASTM D5185m	375	205	249	
Zinc	ppm	ASTM D5185m	25	3	0	
Sulfur	ppm	ASTM D5185m	4900	5217	4293	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	8	8	
Sodium	ppm	ASTM D5185m		3	2	
Potassium	ppm	ASTM D5185m	>20	0	0	
	%	ASTM D6304		0.006	0.001	
	ppm	ASTM D6304	>200	64.7	6.9	
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		60353	14471	
Particles >6µm		ASTM D7647	>1300	1248	▲ 2094	
Particles >14µm		ASTM D7647	>160	52	▲ 165	
Particles >21µm		ASTM D7647		12	▲ 28	
Particles >38µm		ASTM D7647	>10	0	2	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>17/14	17/13	↓ 21/18/15	
FLUID DEGRADAT		method	limit/base		history1	history2
( )	mg KOH/g	ASTM D8045	1.10	0.33	0.41	
:04:06) Rev: 1				Contact/Location	n: DEVIN LINE	HAN - NORDF

Report Id: NORDEX [WUSCAR] 05739643 (Generated: 11/03/2023 05:04:06) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX



# **OIL ANALYSIS REPORT**



Contact/Location: DEVIN LINEHAN - NORDEX

214

CHICAGO, IL US 60606

T: (312)386-4124

F: (312)386-7102

no image

no image

4406

:1999 Cle

14

Dec1