

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TES	T RESULTS				
Sample Status			ABNORMAL	ABNORMAL	
Particles >6µm	ASTM D7647	>320	<u> </u>	<u> </u>	
Oil Cleanliness	ISO 4406 (c)	>/15/12	23/19/12	22/19/15	

Customer Id: NORDEX Sample No.: NX05739632 Lab Number: 05739632 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

29 Apr 2022 Diag: Doug Bogart

ADDITIVES



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. An additive depletion is indicated. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area IRON STAR [200006142] Machine Id 16WEA88291 Component

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

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

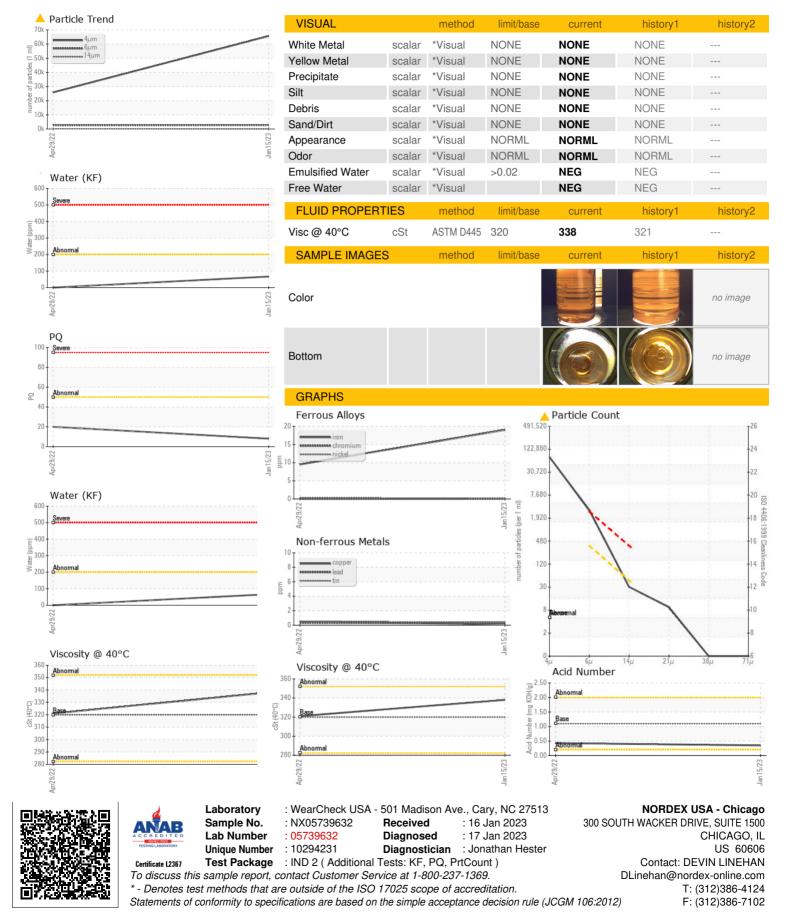
			Apr2022	Jan2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05739632	NX05555948	
Sample Date		Client Info		15 Jan 2023	29 Apr 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	8	20	
Iron	ppm	ASTM D5185m	>30	19	10	
Chromium	ppm	ASTM D5185m	>3	0	0	
Nickel	ppm		>3	0	<1	
Titanium	ppm		>10	0	0	
Silver	ppm	ASTM D5185m	210	0	0	
Aluminum			>30	0	0	
	ppm			-		
Lead	ppm	ASTM D5185m	>15	<1	<1	
Copper	ppm	ASTM D5185m	>10	<1	<1	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	8	13	
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	21	8	
Phosphorus	ppm	ASTM D5185m	375	221	1 95	
Zinc	ppm	ASTM D5185m	25	4	0	
Sulfur	ppm	ASTM D5185m	4900	5761	4388	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	10	11	
Sodium		ASTM D5185m	2710	4	3	
Potassium	ppm		> 20	4	0	
	ppm	ASTM D5185m	>20	-		
Water ppm Water	% ppm	ASTM D6304 ASTM D6304	>0.02 >200	0.006 66.5	0.001	
FLUID CLEANLIN		method	limit/base		history1	history2
	1200		-inni/base			
Particles >4µm		ASTM D7647	0.00	65643	25831	
Particles >6µm		ASTM D7647		<u> </u>	2 634	
Particles >14µm		ASTM D7647	>40	27	1 79	
Particles >21µm		ASTM D7647	>10	8	<u> </u>	
Particles >38µm		ASTM D7647	>3	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/15/12	A 23/19/12	A 22/19/15	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.10	0.35	0.43	
-01-55) Dov: 1	5 0					

Report Id: NORDEX [WUSCAR] 05739632 (Generated: 11/03/2023 05:01:55) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX



OIL ANALYSIS REPORT



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