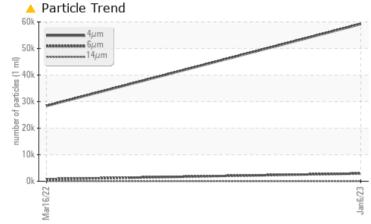


COMPONENT CONDITION SUMMARY



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	🔺 2925	A 779	
Oil Cleanliness	ISO 4406 (c)	>/15/12	A 23/19/12	A 22/17/13	

Customer Id: NORDEX Sample No.: WC05739623 Lab Number: 05739623 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 ISO

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

16 Mar 2022 Diag: Doug Bogart



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] A5WEA88323 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.

		<u>.</u>	Mar2022	Jan2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC05739623	NX05555941	
Sample Date		Client Info		06 Jan 2023	16 Mar 2022	
	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	6	18	
Iron	ppm	ASTM D5185m	>30	23	10	
Chromium	ppm	ASTM D5185m	>3	0	0	
Nickel	ppm	ASTM D5185m	>3	0	<1	
	ppm	ASTM D5185m	>10	0	0	
	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m	>30	0	0	
	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m	>10	0	0	
	ppm	ASTM D5185m		<1	<1	
	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m		0	0	
	ррп					
ADDITIVES		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	25	9	15	
	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	20	6	
Phosphorus	ppm	ASTM D5185m	375	215	204	
Zinc	ppm	ASTM D5185m	25	3	0	
Sulfur	ppm	ASTM D5185m	4900	5729	4612	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	8	8	
Sodium	ppm	ASTM D5185m		2	1	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.02	0.004	0.002	
ppm Water	ppm	ASTM D6304	>200	41.7	23.8	
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		59186	28377	
Particles >6µm		ASTM D7647	>320	<u> </u>	A 779	
Particles >14µm		ASTM D7647	>40	36	5 7	
Particles >21µm		ASTM D7647	>10	9	1 4	
Particles >38µm		ASTM D7647	>3	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/15/12	23/19/12	A 22/17/13	
FLUID DEGRADAT		method	limit/base	current	history1	history2
	mg KOH/g	ASTM D8045	1.10	0.32	0.39	
				0.01		

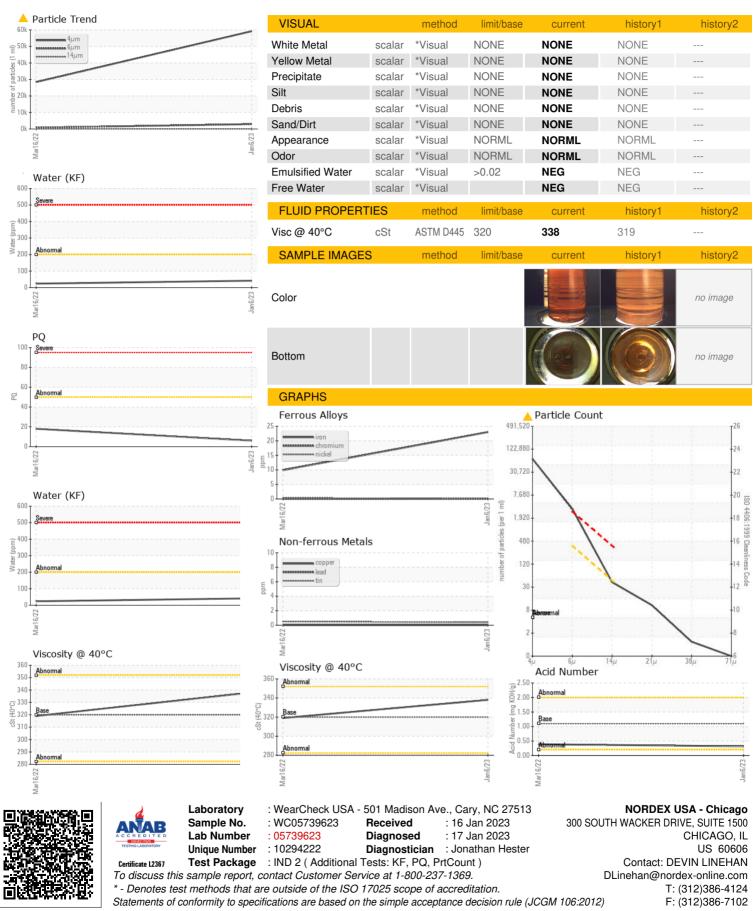
Report Id: NORDEX [WUSCAR] 05739623 (Generated: 11/03/2023 04:59:45) Rev: 1

Contact/Location: DEVIN LINEHAN - NORDEX

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OIL ANALYSIS REPORT



Contact/Location: DEVIN LINEHAN - NORDEX