

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL			
Particles >6µm	ASTM D7647 >1300	🔺 26371	A 3779	1 444			
Particles >14µm	ASTM D7647 >160	A 320	80	33			
Particles >21µm	ASTM D7647 >40	<u> </u>	27	8			
Oil Cleanliness	ISO 4406 (c) >17/14	A 22/15	19/13	2 3/18/12			

Customer Id: NORDEX Sample No.: NX05961233 Lab Number: 05961233 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 customerservice@wearcheck.com

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

HISTORICAL DIAGNOSIS



15 Jan 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



13 Mar 2022 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) 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

IRON STAR [200006142] 19WEA88290 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.

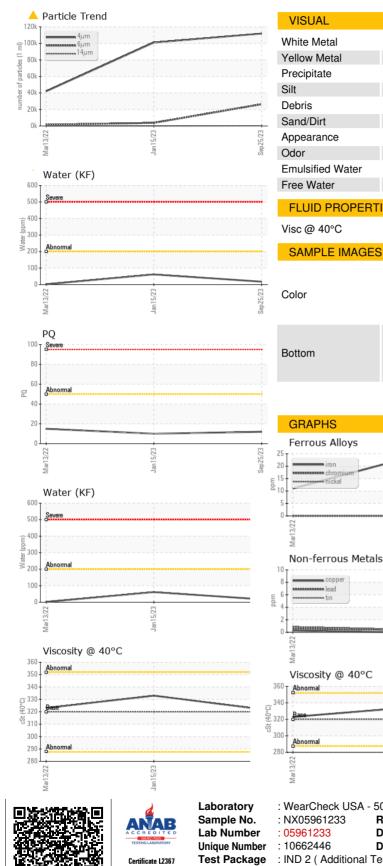
		Ma	2022	Jan2023 Sep20	23	
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05961233	NX05739628	NX05491185
Sample Date		Client Info		25 Sep 2023	15 Jan 2023	13 Mar 2022
Vachine Age	hrs	Client Info		0	0	0
Dil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	12	10	15
ron	ppm	ASTM D6164 ASTM D5185m		12	22	11
Chromium	ppm	ASTM D5185m	>3	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Fitanium	ppm	ASTM D5185m	>3 >10	0	0	0
Silver	ppm	ASTM D5185m	210	0	0	0
Aluminum	ppm	ASTM D5185m	>30	0	0	<1
_ead	ppm		>15	0	<1	<1
Copper	ppm	ASTM D5185m	>10	<1	0	<1
Fin	ppm	ASTM D5185m		0	<1	<1
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	25	6	8	11
Barium	ppm ppm	ASTM D5185m	12	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m	5	<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	0	0	0
Calcium	ppm	ASTM D5185m	25	16	21	21
Phosphorus	ppm	ASTM D5185m	375	202	221	249
Zinc	ppm	ASTM D5185m		0	4	0
Sulfur	ppm	ASTM D5185m	4900	5629	5681	4421
CONTAMINANTS		method	limit/base	current	history1	history2
					13	13
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>+15	12 2	3	2
Potassium	ppm ppm	ASTM D5185m	>20	1	0	0
Vater	%	ASTM D5185III	>0.02	0.002	0.006	0.001
opm Water	ppm	ASTM D0304 ASTM D6304	>200	17.6	61.2	2.1
				-		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	1000	111932	101031	41987
Particles >6µm		ASTM D7647		▲ 26371	▲ 3779 80	▲ 1444 22
Particles >14µm		ASTM D7647	>160	▲ 320 ▲ 74	80	33
Particles >21µm		ASTM D7647	>40	<u> </u>	27 1	8
Particles >38μm Particles >71μm		ASTM D7647 ASTM D7647	>10 >3	3	0	0
Dil Cleanliness		ISO 4406 (c)	>3 >17/14	A 22/15	↓ 19/13	0
		()				
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.10	0.34	0.33	0.39
10.20) Dov: 1						

Report Id: NORDEX [WUSCAR] 05961233 (Generated: 09/27/2023 17:19:38) Rev: 1

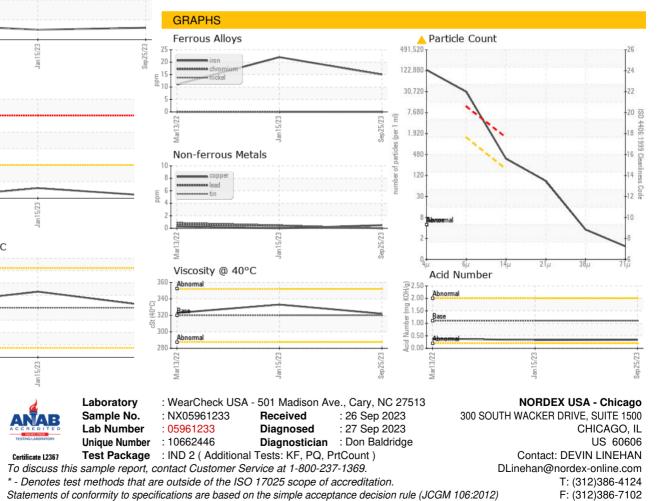
Contact/Location: DEVIN LINEHAN - NORDEX



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.02	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	322	333	323
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						·



Contact/Location: DEVIN LINEHAN - NORDEX