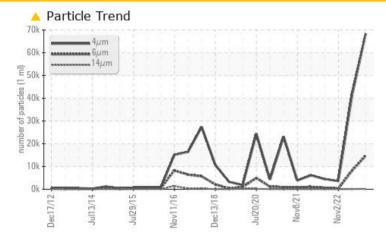


PROBLEM SUMMARY

Area HIGHLAND [600380503] 25WEA80829 Component

Wind Turbine Gearbox Fluid MOBIL XMP 320 (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TES	ST RESULTS				
Sample Status			ABNORMAL	ABNORMAL	NORMAL
Particles >6µm	ASTM D7647	>2500	🔺 14754	A 8239	294
Oil Cleanliness	ISO 4406 (c)	>/18/15	A 23/21/14	A 23/20/14	19/15/11

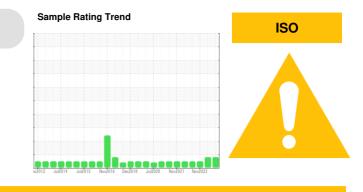
Customer Id: NORHIG Sample No.: NX05928214 Lab Number: 05928214 Test Package: IND 2



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



21 Dec 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 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.

view report

view report

02 Nov 2022 Diag: Jonathan Hester



Nov 2022 Blug. Vonathan nester



Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

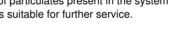
NORMAL



05 May 2022 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Area HIGHLAND [600380503] 25WEA80829

Component Wind Turbine Gearbox Fluid MOBIL XMP 320 (--- LTR)

DIAGNOSIS

Recommendation

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

Wear

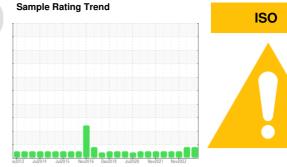
All component wear rates are normal.

Contamination

There is a high amount of 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.



SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05928214	NX05766527	NX05700295
Sample Date		Client Info		28 Jun 2023	21 Dec 2022	02 Nov 2022
	nths	Client Info		0	0	0
Ū	nths	Client Info		0	0	0
Oil Changed	nano	Client Info		N/A	0 N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	17	16	13
	opm	ASTM D5185m		41	27	29
	opm	ASTM D5185m	>5	<1	<1	0
	opm	ASTM D5185m		0	<1	0
	opm	ASTM D5185m	>10	0	0	0
	opm	ASTM D5185m		0	0	0
	opm	ASTM D5185m	>10	0	0	0
	opm	ASTM D5185m		0	0	0
	opm	ASTM D5185m	>50	3	<1	3
	opm	ASTM D5185m		0	<1	0
	opm	ASTM D5185m	210	0	0	0
	opm	ASTM D5185m		0	0	0
ADDITIVES	opin	method	limit/base	current	history1	history2
_			IIIIIIIIIIIII			
	opm	ASTM D5185m ASTM D5185m		0	0	0
	opm			1	0	8
	opm	ASTM D5185m ASTM D5185m		י <1	<1	o <1
	opm	ASTM D5185m		0	<1	0
	opm	ASTM D5185m		ں <1	2	15
	opm	ASTM D5185m	315	394	370	422
	opm	ASTM D5185m	315	394 44	34	422
	opm	ASTM D5185m		44 13875	12861	42
	opm		1			
CONTAMINANTS		method	limit/base	current	history1	history2
	opm	ASTM D5185m		<1	<1	<1
	opm	ASTM D5185m	>20	0	0	0
	opm	ASTM D5185m	>20	0	<1	0
	%	ASTM D6304	>0.05	0.004	0.006	0.013
	opm	ASTM D6304	>500	46.9	63.6	133.0
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		68339	41198	3591
Particles >6µm		ASTM D7647		<u> </u>	▲ 8239	294
Particles >14µm		ASTM D7647	>320	141	102	14
Particles >21µm		ASTM D7647		20	8	6
Particles >38µm		ASTM D7647	>20	1	1	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	A 23/21/14	▲ 23/20/14	19/15/11
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045

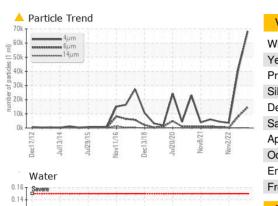
0.98 0.92 0.91

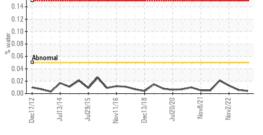
Report Id: NORHIG [WUSCAR] 05928214 (Generated: 08/21/2023 13:39:32) Rev: 1

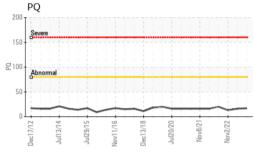
Contact/Location: Robert Warner - NORHIG



OIL ANALYSIS REPORT







Water

0.06 Abr

Dec17

Viscosity @ 40°C

0.16

0.12

0.10

0.02

0.00

360

350

340

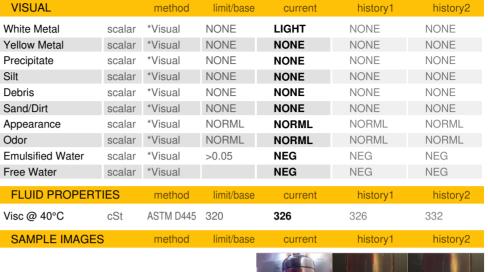
(J-04) 320 310

300

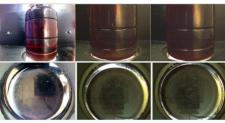
290 Abnorm

28

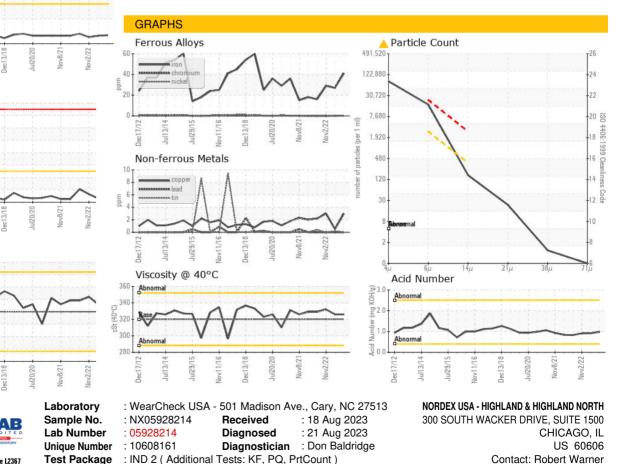
Ŕ.



Color



Bottom



Certificate 12367 **Test Package** : IND 2 (Additional Tests: KF, PQ, PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

Contact/Location: Robert Warner - NORHIG

T: x:

F: x:

rwarner@everpower.com