

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

BEKEVAR [46004111] D622350 (S/N CM0082)

Wind Turbine Gearbox

SHELL OMALA S5 WIND 320 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

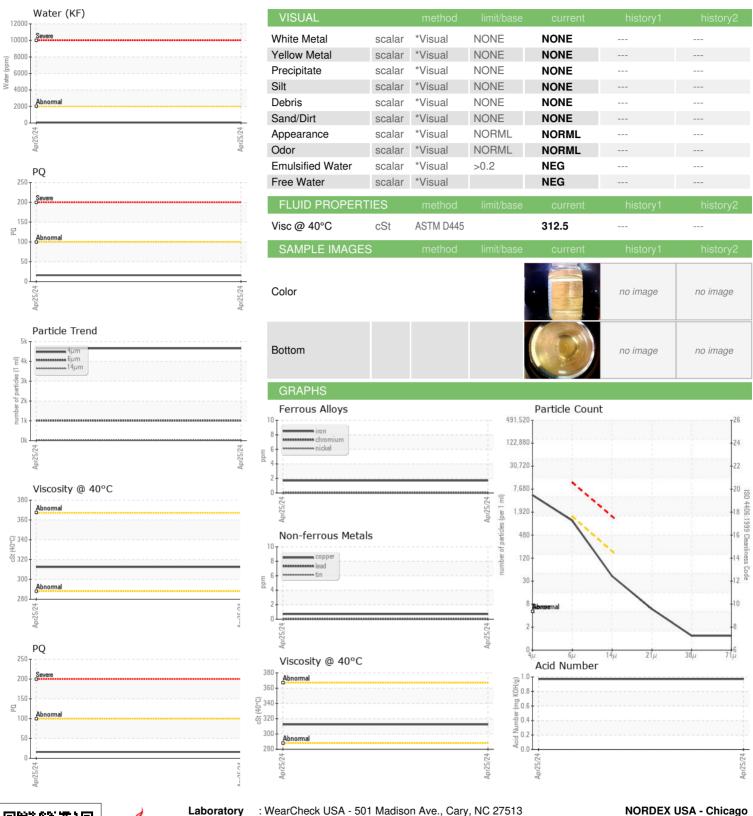
Fluid Condition

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

				Apr2024		
OANDI E INIEGO	MATION		11 11 11			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX014244		
Sample Date		Client Info		25 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		16		
Iron	ppm	ASTM D5185m	>200	2		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		1		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
	ρρ					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		473		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		3842		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		2		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.2	0.004		
ppm Water	ppm	ASTM D6304	>2000	47		
FLUID CLEANLII	NESS _	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4653		
Particles >6µm		ASTM D7647	>1300	1011		
Particles >14μm		ASTM D7647	>160	36		
Particles >21µm		ASTM D7647	>40	5		
Particles >38µm		ASTM D7647	>10	1		
Particles >71μm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>17/14	17/12		
FLUID DEGRAD	ATION_	method	limit/base	current	history1	history2
					, , , , , , , , , , , , , , , , , , , ,	



OIL ANALYSIS REPORT





Laboratory Sample No.

: NX014244 Lab Number : 06181861 Unique Number: 11033187

Received **Tested** Diagnosed

: 16 May 2024 : 20 May 2024 : 20 May 2024 - Angela Borella

300 SOUTH WACKER DRIVE, SUITE 1500

CHICAGO, IL US 60606 Contact: KEVIN REGAN

KRegan@nordex-online.com

Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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) F: (312)386-7102

Report Id: NORDEX [WUSCAR] 06181861 (Generated: 05/20/2024 12:12:40) Rev: 1

Contact/Location: KEVIN REGAN - NORDEX

T: