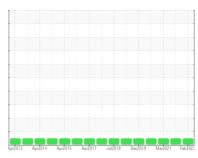


OIL ANALYSIS REPORT

WINERGY GEARBOX WTG-205 (S/N 4836490-0020-2)

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CKC ISO 320 (340 LTR)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

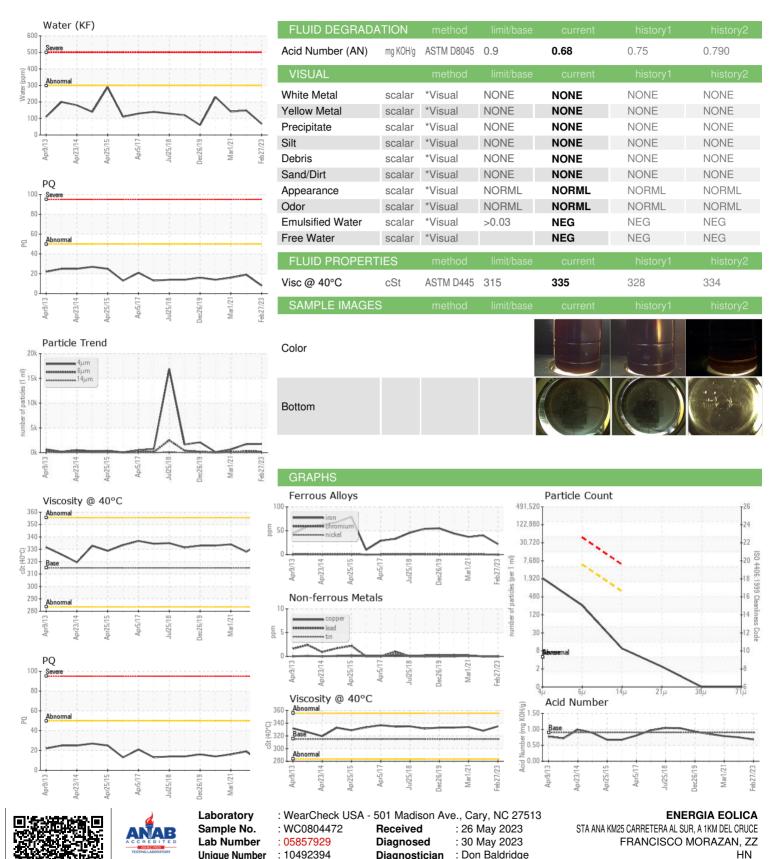
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2	+O L111)		AprZ013 Apr	2014 Apr2015 Apr201	7 Jul2018 Dec2019 Mar20	21 Feb2023	
Sample Date Client Info 27 Feb 2023 26 Jan 2022 01 Mar 2021	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age mths Client Info 89 74 120 Oil Age mths Client Info 89 0 65 Oil Changed Client Info Not Changed N/A Not Changed Sample Status NoRMAL NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history2 PQ ASTM D5185m >50 8 19 16 Iron ppm ASTM D5185m >65 22 40 37 Chromium ppm ASTM D5185m >3 <1	Sample Number		Client Info		WC0804472	WC05504509	WC0547146
Oil Age mths Client Info 89 0 65 Oil Changed Client Info Not Changed N/A Not Changed Sample Status Client Info NoRMAL NORMAL NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 PQ ASTM D5185m 50 8 19 16 Iron ppm ASTM D5185m 565 22 40 37 Chromium ppm ASTM D5185m 53 0 0 0 Titanium ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >10 <1	Sample Date		Client Info		27 Feb 2023	26 Jan 2022	01 Mar 2021
Oil Changed Sample Status	Machine Age	mths	Client Info		89	74	120
NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2	Oil Age	mths	Client Info		89	0	65
WEAR METALS method limit/base current history1 history2 PQ ASTM D8164 >50 8 19 16 Iron ppm ASTM D8168m >65 22 40 37 Chromium ppm ASTM D8185m >3 <1 <1 <1 <1 Nickel ppm ASTM D8185m >3 <1 <1 <1 0 2 1 0 0 0 0 2 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 <td< th=""><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>Not Changd</th><th>N/A</th><th>Not Changd</th></td<>	Oil Changed		Client Info		Not Changd	N/A	Not Changd
PQ ASTM D8184 >50 8 19 16 Iron ppm ASTM D8185m >65 22 40 37 Chromium ppm ASTM D8185m >3 <1	Sample Status				NORMAL	NORMAL	NORMAL
Iron ppm ASTM D5185m >65 22 40 37 Chromium ppm ASTM D5185m >3 <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >3 <1	PQ		ASTM D8184	>50	8	19	16
Nickel ppm ASTM D5185m >3 0 0 0 Titanium ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >10 <1 0 0 Aluminum ppm ASTM D5185m >5 0 0 <1 Lead ppm ASTM D5185m >5 0 0 <1 Copper ppm ASTM D5185m >10 0 0 <1 Tin ppm ASTM D5185m >10 0 0 <1 Antimony ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0	Iron	ppm	ASTM D5185m	>65	22	40	37
Titanium	Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>3	0	0	0
Aluminum	Titanium	ppm	ASTM D5185m	>10	0	0	0
Lead ppm ASTM D5185m >5 0 0 <1	Silver	ppm	ASTM D5185m		0	<1	0
Lead ppm ASTM D5185m >5 0 0 <1	Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Tin ppm ASTM D5185m >10 0 0 <1							



OIL ANALYSIS REPORT

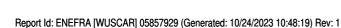


Test Package: IND 2 (Additional Tests: KF, PQ, PrtCount)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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.



Certificate L2367

Contact/Location: SANTOS DEL CID - ENEFRA

T: x:

F: x:

Contact: SANTOS DEL CID

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