

OIL ANALYSIS REPORT

Sample Rating Trend



Area **5**

WINERGY GEARBOX WTG-501 (S/N 4836487-0020-3)

Component

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CKC ISO 320 (340 LTR

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

40 LTR)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804465	WC05504495	WC0547173
Sample Date		Client Info		02 Mar 2023	27 Jan 2022	03 Mar 2021
Machine Age	yrs	Client Info		8	0	120
Oil Age	yrs	Client Info		8	0	65
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	12	20	21
Iron	ppm	ASTM D5185m	>65	16	7	11
Chromium	ppm	ASTM D5185m	>3	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>5	0	0	<1
Copper	ppm	ASTM D5185m	>10	0	0	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	<1	0	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m	17	16	4	21
Phosphorus	ppm	ASTM D5185m	200	198	227	219
Zinc	ppm	ASTM D5185m		53	6	0
Sulfur	ppm	ASTM D5185m	5000	5771	4639	4871
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		4	0	3
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water	%	ASTM D6304	>0.03	0.010	0.015	0.012
ppm Water	ppm	ASTM D6304	>300	103.9	152.5	121.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1177	110297	189
Particles >6µm		ASTM D7647	>5000	385	3396	33
Particles >14μm		ASTM D7647	>640	45	21	5
Particles >21µm		ASTM D7647	>160	9	6	3
Particles >38µm		ASTM D7647	>40	1	3	0
Particles >71μm		ASTM D7647	>10	0	1	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	17/16/13	24/19/12	15/12/10



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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)

T: x:

F: x:

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