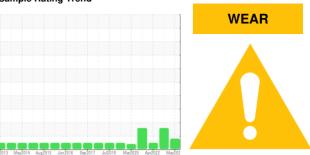


GREASE ANALYSIS

Sample Rating Trend



Machine Id

TURBINA 03 (S/N 101310)

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (320 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The iron level is abnormal.

Contamination

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

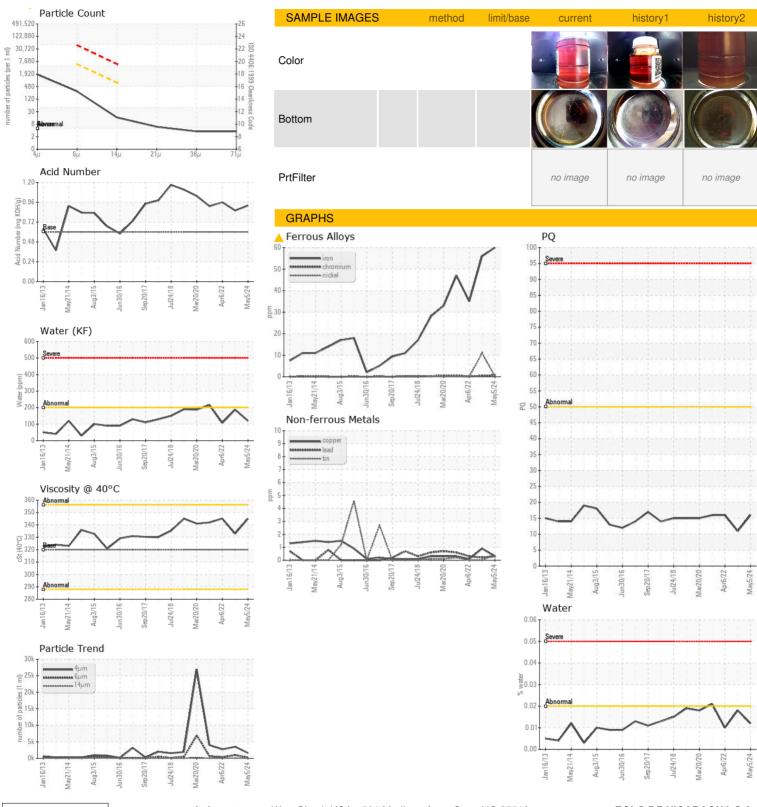
Fluid Condition

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

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SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0881143	WC0831511	WC05582423
Sample Date		Client Info		05 May 2024	09 Aug 2023	06 Apr 2022
Machine Age	yrs	Client Info		12	11	72
Oil Age	yrs	Client Info		9	7	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	16	11	16
Iron	ppm	ASTM D5185m	>30	<u></u> 60	△ 56	35
Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	<u> 11</u>	0
Cadmium	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>10	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m		192	197	137
Zinc	ppm	ASTM D5185m		158	149	122
Antimony	ppm	ASTM D5185m				
THICKENER/SOA	Р	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		1	0	<1
Barium	ppm	ASTM D5185m		1	2	0
	ppiii	AO I IVI DO TOOTII			_	0
Calcium	ppm	ASTM D5185m		8	7	3
				-		
Calcium	ppm	ASTM D5185m		8	7	3
Calcium Sodium	ppm	ASTM D5185m ASTM D5185m	limit/base	8	7	3
Calcium Sodium Sulfur	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >+15	8 2 4210	7 0 5623	3 1 3464
Calcium Sodium Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		8 2 4210 current	7 0 5623 history1	3 1 3464 history2
Calcium Sodium Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m		8 2 4210 current	7 0 5623 history1	3 1 3464 history2



GREASE ANALYSIS







Laboratory Sample No.

: WC0881143 Lab Number : 06194675 Unique Number : 11056798

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 29 May 2024 **Tested** : 31 May 2024

EOLO DE NICARAGUA S.A. DEL SEMAFORO DEL CLUB TERRAZA, 1 CUADRA AL SUR MANAGUA, ZZ

Diagnosed : 31 May 2024 - Angela Borella Test Package : GRS 1 (Additional Tests: Consistency, FilterPatch, GreaseColor, ICP, KF, KV40, PQ, PrtCount, Confident Rafael Bermudez

Certificate 12367 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: Rafael Bermudez - EOLOMAN

NI

T:

F: