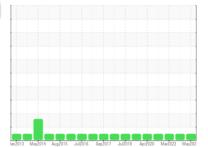


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

TURBINA 22 (S/N 101168)

Wind Turbine Gearbox

FUCHS RENOLIN UNISYN CLP 320 (340 LT

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

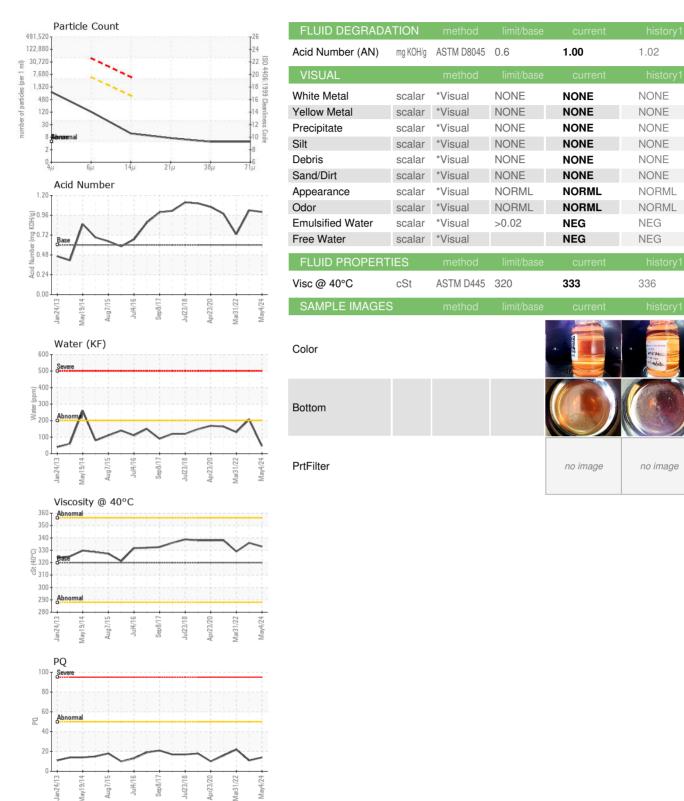
Fluid Condition

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

TR)		lan 2013 May 2	014 Aug2015 Jul2016	Sep 2017 Jul 2018 Apr 2020 Mar 2	022 May202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0831491	WC0831526	WC05582410
Sample Date		Client Info		04 May 2024	21 Aug 2023	31 Mar 2022
Machine Age	yrs	Client Info		3	24	6
Oil Age	yrs	Client Info		3	24	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	14	11	22
Iron	ppm	ASTM D5185m	>30	29	27	9
Chromium	ppm	ASTM D5185m	>3	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>10	<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	0	<1
Lead	ppm	ASTM D5185m	>15	1	<1	<1
Copper	ppm	ASTM D5185m	>10	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		1	2	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		10	7	6
Phosphorus	ppm	ASTM D5185m		219	203	182
Zinc	ppm	ASTM D5185m		140	53	24
Sulfur	ppm	ASTM D5185m		4748	5643	5142
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	2	8	<1
Sodium	ppm	ASTM D5185m		3	0	3
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.02	0.004	0.020	0.013
ppm Water	ppm	ASTM D6304	>200	46	206.9	130.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		966	7381	1286
Particles >6µm		ASTM D7647	>5000	109	2139	270
Particles >14µm		ASTM D7647	>640	10	223	35
Particles >21µm		ASTM D7647	>160	6	77	10
Particles >38µm		ASTM D7647	>40	4	6	0
Particles >71µm		ASTM D7647	>10	4	1	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	17/14/10	20/18/15	17/15/12



OIL ANALYSIS REPORT







Laboratory

Sample No. Lab Number : 06194664

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0831491

Unique Number : 11056787

Received : 29 May 2024 **Tested** : 31 May 2024 Diagnosed : 31 May 2024 - Wes Davis

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

Contact/Location: Rafael Bermudez - EOLOMAN

MANAGUA, ZZ NI Contact: Rafael Bermudez

0.73

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

329

no image

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

Report Id: EOLOMAN [WUSCAR] 06194664 (Generated: 05/31/2024 16:47:53) Rev: 1

T:

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