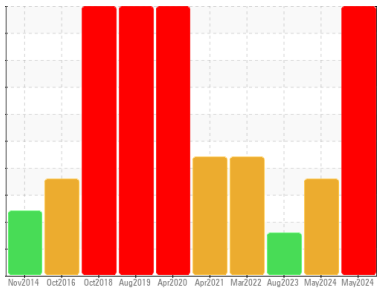
PROBLEM SUMMARY

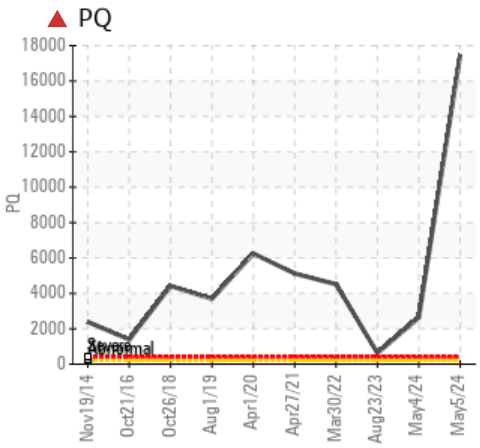
Sample Rating Trend

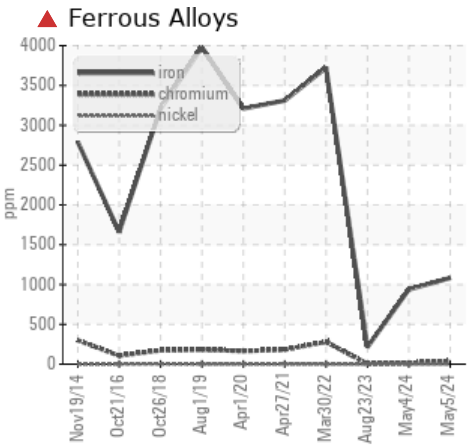


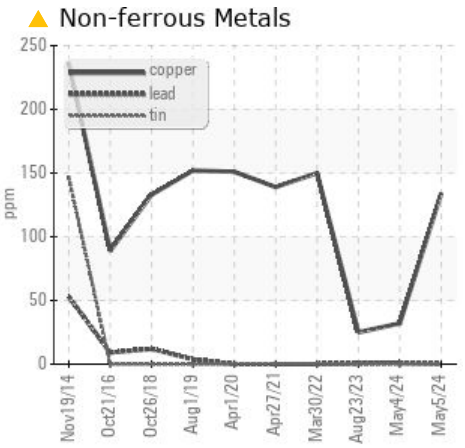
WEAR

Machine Id
TURBINA 20 - FRONT BEARING (S/N 101181)
Component
Grease
Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. No corrective action is recommended at this time.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>200	▲ **17477**	▲ 2638	629
Iron	ppm	ASTM D5185m	>250	▲ **1083**	▲ 938	215
Chromium	ppm	ASTM D5185m	>10	▲ **40**	▲ 14	3
Copper	ppm	ASTM D5185m	>75	▲ **134**	32	25

Customer Id: EOLOMAN
Sample No.: WC0881147
Lab Number: 06194911
Test Package: GRS 1

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Monitor	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.
Change Fluid	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.
Resample	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.

HISTORICAL DIAGNOSIS

WEAR

04 May 2024 Diag: Doug Bogart
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.Bearing and/or bushing wear is indicated. There is no indication of any contamination in the grease. The condition of the grease is acceptable for the time in service.

view report

DIRT

23 Aug 2023 Diag: Doug Bogart
No corrective action is recommended at this time.All component wear rates are normal. Elemental level of silicon (Si) above normal. The condition of the grease is acceptable for the time in service.

view report

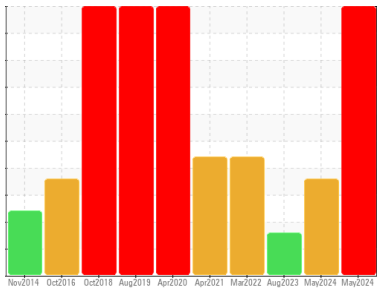
WEAR

30 Mar 2022 Diag: Doug Bogart
We recommend an early resample to monitor this condition.The iron level is abnormal. The very high ferrous density (PQ) index indicates that severe wear is occurring. There is a trace of moisture present in the grease. The AN level is acceptable for this fluid.

view report

GREASE ANALYSIS

Sample Rating Trend



WEAR

Machine Id
TURBINA 20 - FRONT BEARING (S/N 101181)
Component
Grease
Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

DIAGNOSIS

▲ Recommendation
Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. No corrective action is recommended at this time.

▲ Wear
An increase in the wear is noted. Bearing and/or bushing wear is indicated.

Grease Condition
The condition of the grease is acceptable for the time in service.

Contaminants
There is no indication of any contamination in the grease.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0881147**	WC0881139	WC0505300
Sample Date		Client Info		**05 May 2024**	04 May 2024	23 Aug 2023
Machine Age	yrs	Client Info		**12**	2	11
Grease Age	yrs	Client Info		**1**	1	1
Grease Serviced		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	▲ **17477**	▲ 2638	629
Iron	ppm	ASTM D5185m	>250	▲ **1083**	▲ 938	215
Chromium	ppm	ASTM D5185m	>10	▲ **40**	▲ 14	3
Nickel	ppm	ASTM D5185m	>5	**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	1	<1
Titanium	ppm	ASTM D5185m		**<1**	1	2
Vanadium	ppm	ASTM D5185m		**<1**	2	<1
Lead	ppm	ASTM D5185m	>25	**0**	1	<1
Copper	ppm	ASTM D5185m	>75	▲ **134**	32	25
Tin	ppm	ASTM D5185m	>5	**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	0	7

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**137**	165	106
Magnesium	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**7**	3	<1
Molybdenum	ppm	ASTM D5185m		**550**	4935	2813
Phosphorus	ppm	ASTM D5185m		**528**	971	914
Zinc	ppm	ASTM D5185m		**60**	277	95

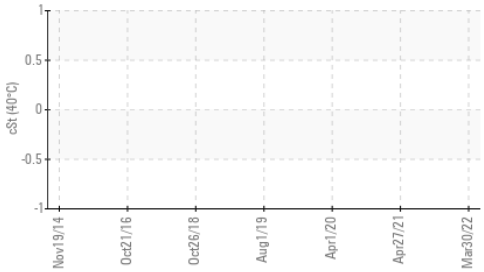
THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	13	9
Calcium	ppm	ASTM D5185m		**10**	21	19
Sodium	ppm	ASTM D5185m		**2**	22	13
Lithium	ppm	ASTM D5185m		**384**	3341	2938
Sulfur	ppm	ASTM D5185m		**4000**	4823	3172

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	**420**	249	▲ 1089
Potassium	ppm	ASTM D5185m		**<1**	5	1

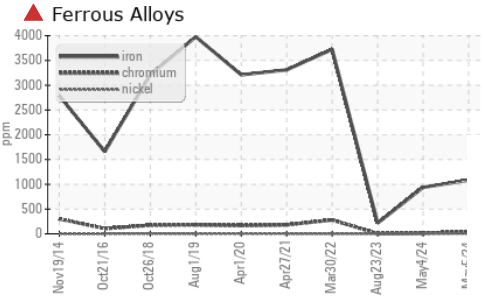
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color		*Visual	yellow	**Brown**	Yellow	---
Texture		*In-house		**Buttery**	Short fiber	---
NLGI Consistency	NLGI Scale	*SKF Method	1	**0-1**	0-1	---

GREASE ANALYSIS

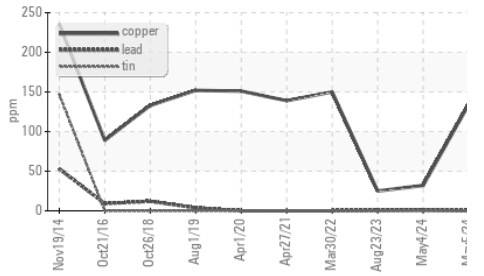
Viscosity @ 40°C



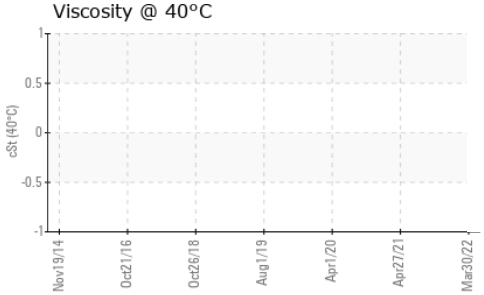
Ferrous Alloys



Non-ferrous Metals



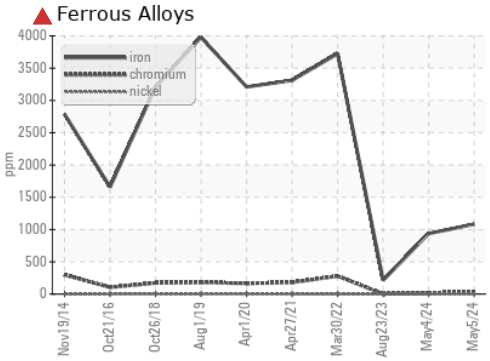
Viscosity @ 40°C



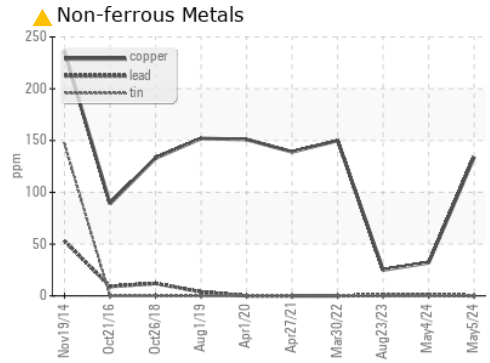
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter			*no image*	*no image*	*no image*

GRAPHS

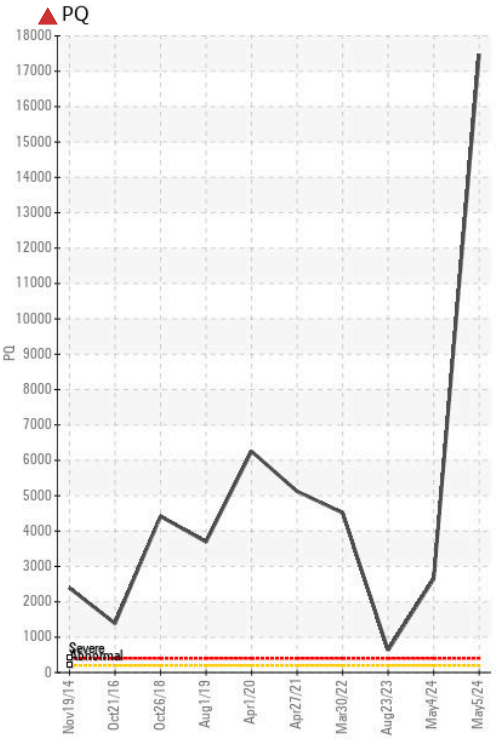
Ferrous Alloys



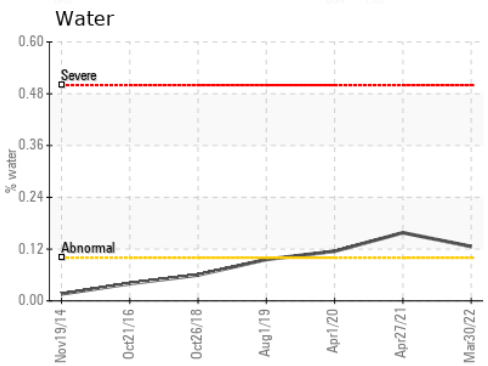
Non-ferrous Metals



PQ



Water



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0881147
Lab Number : 06194911
Unique Number : 11057034
Test Package : GRS 1 (Additional Tests: KV40, SCREEN)

Received : 29 May 2024
Tested : 13 Jun 2024
Diagnosed : 13 Jun 2024 - Doug Bogart

EOLO DE NICARAGUA S.A.
DEL SEMAFORO DEL CLUB TERRAZA, 1 CUADRA AL SUR
MANAGUA, ZZ
NI
Contact: Rafael Bermudez

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:
F: