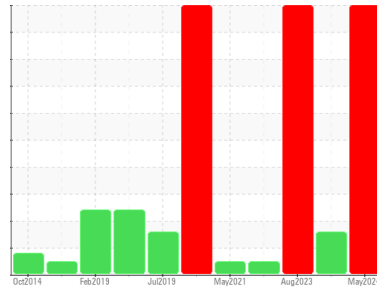




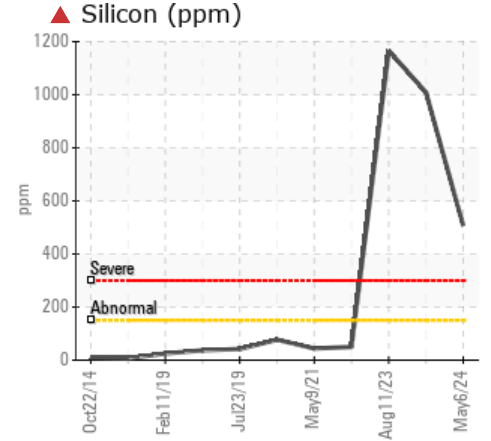
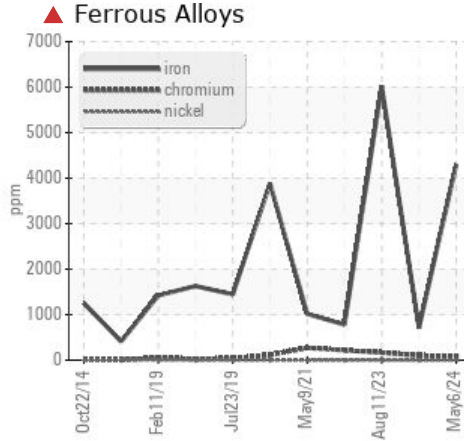
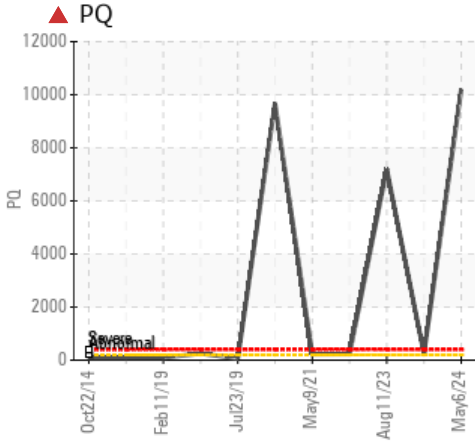
PROBLEM SUMMARY

Machine Id
TURBINA 07 - REAR BEARING
 Component
Grease
 Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

Sample Rating Trend



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.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM	Limit	SEVERE	ABNORMAL	SEVERE
PQ	ASTM D8184	>200	▲ 10189	250	▲ 7194
Iron	ppm ASTM D5185m	>250	▲ 4294	711	▲ 6014
Chromium	ppm ASTM D5185m	>10	▲ 93	102	▲ 167
Silver	ppm ASTM D5185m	>5	▲ 3	<1	0
Silicon	ppm ASTM D5185m	>150	▲ 508	▲ 1009	▲ 1166

Customer Id: EOLOMAN
 Sample No.: WC0881132
 Lab Number: 06194895
 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

DIRT



12 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



11 Aug 2023 Diag: Doug Bogart

Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. Bearing and/or bushing wear is indicated. Elemental level of silicon (Si) above normal. The condition of the greases additive package is suitable for further service. The condition of the grease is acceptable for the time in service.

[view report](#)



NORMAL



04 Apr 2022 Diag: Doug Bogart

No corrective action is recommended at this time. All component wear rates are normal. There is no indication of any contamination in the grease. The AN level is acceptable for this fluid.

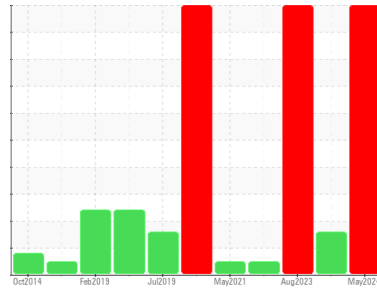
[view report](#)





GREASE ANALYSIS

Sample Rating Trend



WEAR



Machine Id
TURBINA 07 - REAR BEARING

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.

▲ Wear

Bearing and/or bushing wear is indicated.

Grease Condition

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

▲ Contaminants

Elemental level of silicon (Si) above normal.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0881132	WC0831544	WC0831530
Sample Date	Client Info			06 May 2024	12 Aug 2023	11 Aug 2023
Machine Age	yrs	Client Info		12	11	11
Grease Age	yrs	Client Info		1	1	1
Grease Serviced	Client Info			N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE

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	▲ 10189	250	▲ 7194
Iron	ppm	ASTM D5185m	>250	▲ 4294	711	▲ 6014
Chromium	ppm	ASTM D5185m	>10	▲ 93	102	▲ 167
Nickel	ppm	ASTM D5185m	>5	0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	2
Vanadium	ppm	ASTM D5185m		1	1	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>75	36	13	51
Tin	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>5	▲ 3	<1	0

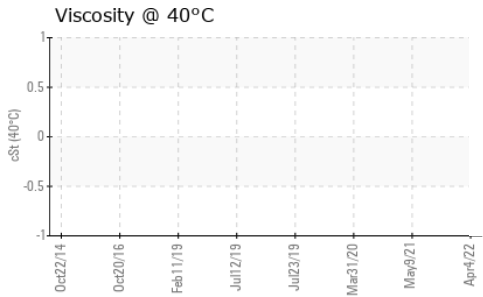
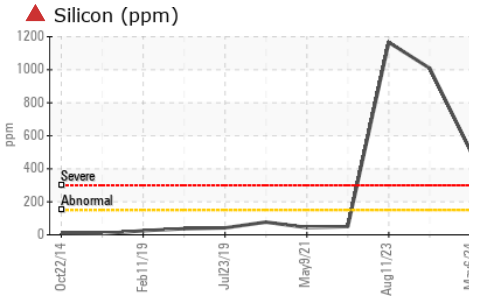
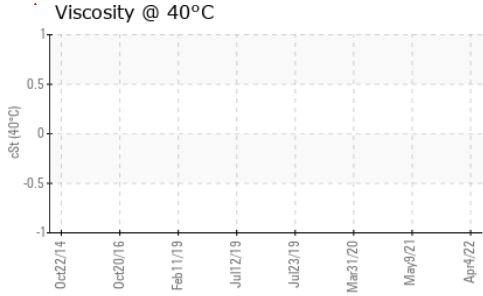
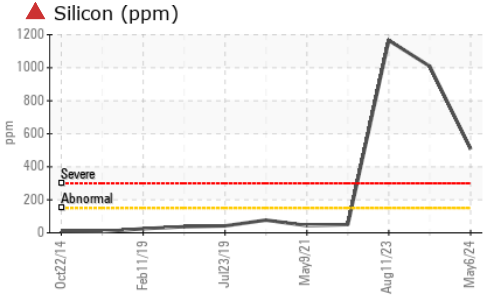
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		219	219	396
Magnesium	ppm	ASTM D5185m		0	0	2
Manganese	ppm	ASTM D5185m		29	7	40
Molybdenum	ppm	ASTM D5185m		3281	3665	5363
Phosphorus	ppm	ASTM D5185m		608	642	939
Zinc	ppm	ASTM D5185m		255	174	464

THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		4	11	14
Calcium	ppm	ASTM D5185m		101	103	215
Sodium	ppm	ASTM D5185m		24	33	63
Lithium	ppm	ASTM D5185m		2748	3024	3378
Sulfur	ppm	ASTM D5185m		6476	6497	11608

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	▲ 508	▲ 1009	▲ 1166
Potassium	ppm	ASTM D5185m		8	2	15

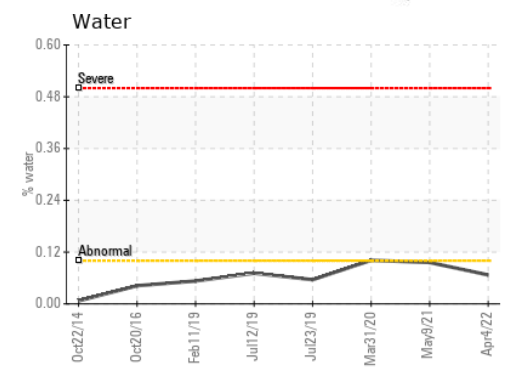
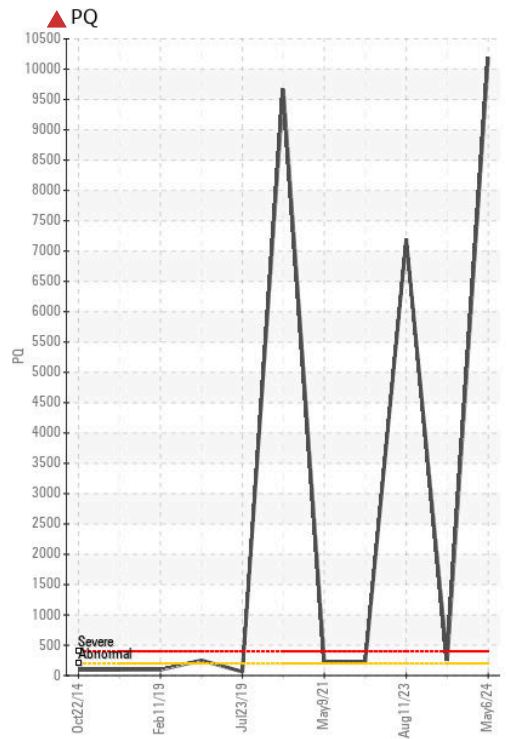
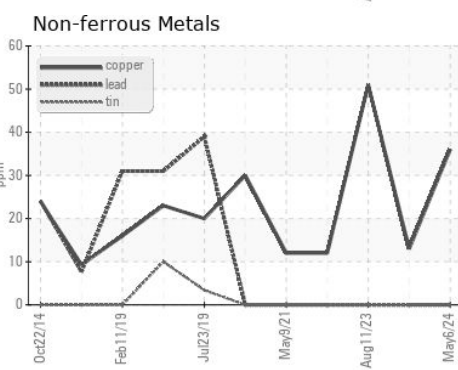
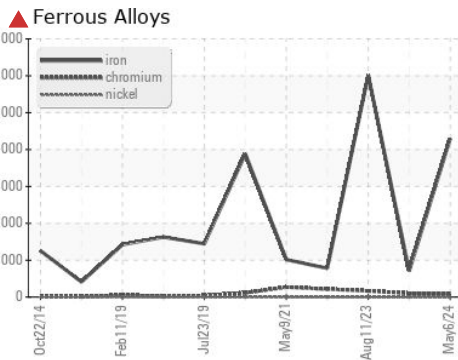
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color		*Visual	yellow	Brown	---	---
Texture		*In-house		Buttery	---	---
NLGI Consistency	NLGI Scale	*SKF Method	1	00-0	---	---

GREASE ANALYSIS



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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0881132 **Received** : 29 May 2024
Lab Number : 06194895 **Tested** : 17 Jun 2024
Unique Number : 11057018 **Diagnosed** : 17 Jun 2024 - Doug Bogart
Test Package : GRS 1 (Additional Tests: KV40, SCREEN)

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: