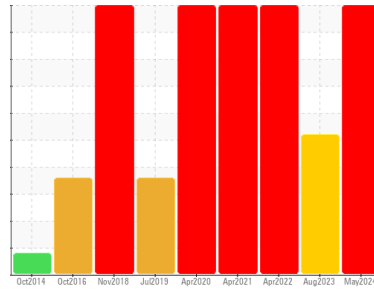




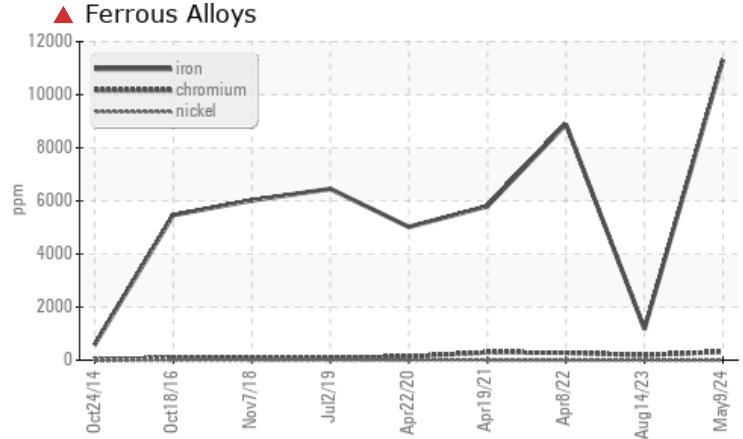
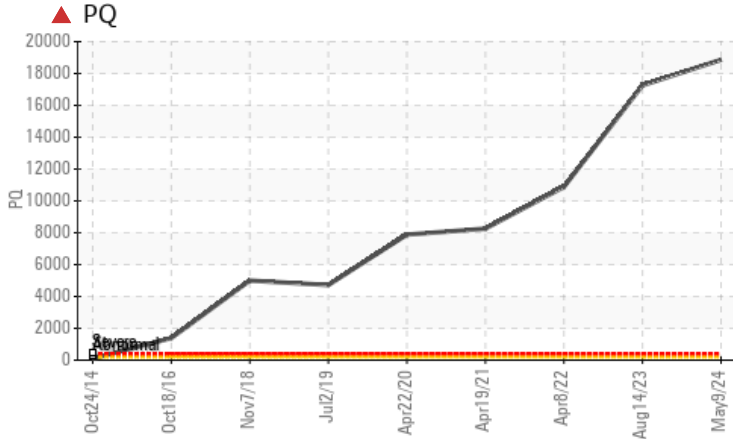
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
TURBINA 09 - FRONT BEARING (S/N 101311)
 Component
Grease
 Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

COMPONENT CONDITION SUMMARY




RECOMMENDATION

Purge old grease. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	ABNORMAL	SEVERE
PQ		ASTM D8184 >200	▲ 18861	▲ 17256	▲ 10883
Iron	ppm	ASTM D5185m >250	▲ 11320	▲ 1176	▲ 8886
Chromium	ppm	ASTM D5185m >10	▲ 317	▲ 190	▲ 279

Customer Id: EOLOMAN
 Sample No.: WC0881127
 Lab Number: 06194923
 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. We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR



14 Aug 2023 Diag: Doug Bogart

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The iron level is abnormal. Elemental level of silicon (Si) above normal. The condition of the grease is acceptable for the time in service.

view report



WEAR



08 Apr 2022 Diag: Doug Bogart

Recommend drain grease if not already done and flush before refilling with grease. We recommend an early resample to monitor this condition. The iron level is abnormal. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a light concentration of water present in the grease. The AN level is above the recommended limit. The grease is no longer serviceable as a result of the abnormal and/or severe wear.

view report



WEAR



19 Apr 2021 Diag: Doug Bogart

Recommend drain grease if not already done and flush before refilling with grease. We recommend an early resample to monitor this condition. The iron level is abnormal. The high ferrous density (PQ) index indicates that abnormal wear is occurring. There is no indication of any contamination in the grease. The AN level is acceptable for this fluid. The grease is no longer serviceable as a result of the abnormal and/or severe wear.

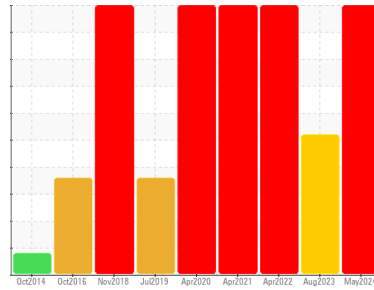
view report





GREASE ANALYSIS

Sample Rating Trend



WEAR



Machine Id
TURBINA 09 - FRONT BEARING (S/N 101311)
 Component
Grease
 Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

DIAGNOSIS

▲ Recommendation

Purge old grease. We recommend an early resample to monitor this condition.

▲ Wear

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

Grease Condition

The grease is no longer serviceable as a result of the abnormal and/or severe wear.

Contaminants

There is no indication of any contamination in the grease.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0881127	WC0831525	WC05582737
Sample Date	Client Info		09 May 2024	14 Aug 2023	08 Apr 2022
Machine Age	yrs	Client Info	12	11	6
Grease Age	yrs	Client Info	1	1	0
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	▲ 18861	▲ 17256	▲ 10883
Iron	ppm	ASTM D5185m	>250	▲ 11320	▲ 1176
Chromium	ppm	ASTM D5185m	>10	▲ 317	▲ 190
Nickel	ppm	ASTM D5185m	>5	0	0
Cadmium	ppm	ASTM D5185m		0	<1
Titanium	ppm	ASTM D5185m		2	<1
Vanadium	ppm	ASTM D5185m		2	<1
Lead	ppm	ASTM D5185m	>25	0	0
Copper	ppm	ASTM D5185m	>75	71	12
Tin	ppm	ASTM D5185m	>5	0	0
Silver	ppm	ASTM D5185m	>5	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		222	138
Magnesium	ppm	ASTM D5185m		0	5
Manganese	ppm	ASTM D5185m		76	14
Molybdenum	ppm	ASTM D5185m		4992	1898
Phosphorus	ppm	ASTM D5185m		701	437
Zinc	ppm	ASTM D5185m		502	193
Antimony	ppm	ASTM D5185m		---	---

THICKENER/SOAP

	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		0	1
Barium	ppm	ASTM D5185m		0	6
Calcium	ppm	ASTM D5185m		99	58
Sodium	ppm	ASTM D5185m		37	96
Lithium	ppm	ASTM D5185m		3507	1588
Sulfur	ppm	ASTM D5185m		6392	4099

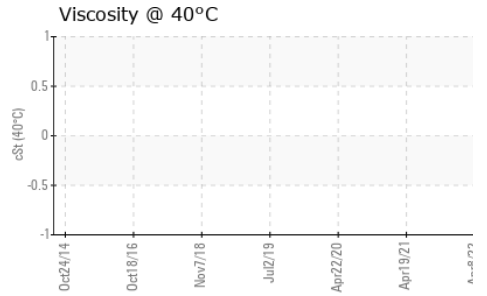
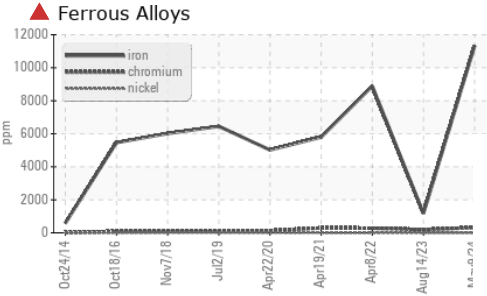
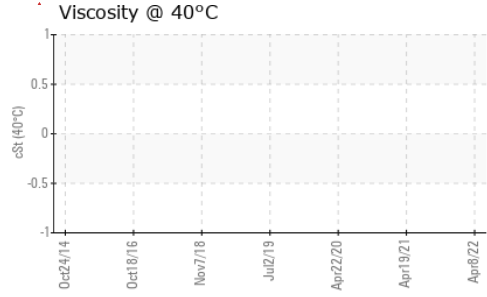
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	319	▲ 702
Potassium	ppm	ASTM D5185m		8	15

GREASE CONDITION

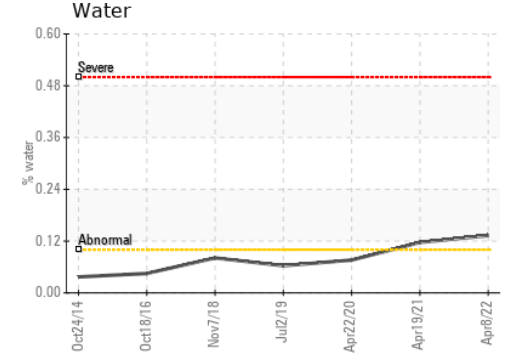
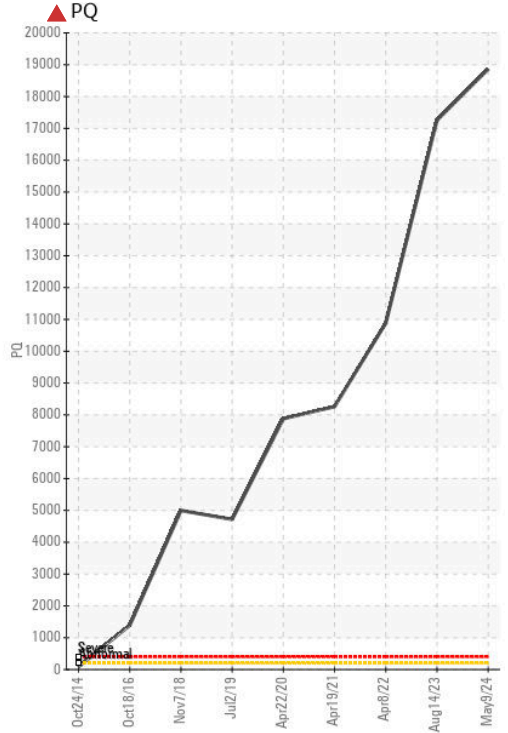
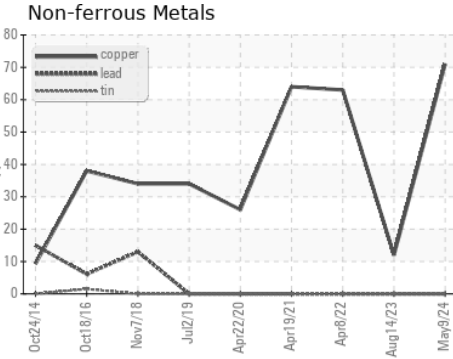
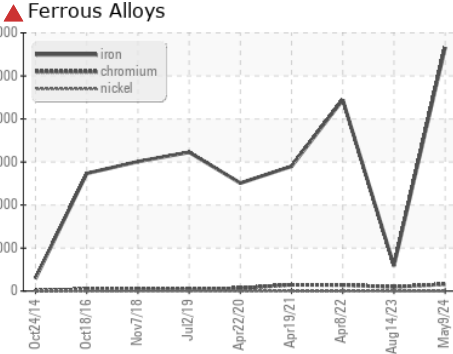
	method	limit/base	current	history1	history2
Grease Color	*Visual	yellow	Brown	---	---
Texture	*In-house		Buttery	---	---
NLGI Consistency	NLGI Scale *SKF Method	1	00-0	---	---

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. : WC0881127 **Received** : 29 May 2024
Lab Number : 06194923 **Tested** : 13 Jun 2024
Unique Number : 11057046 **Diagnosed** : 13 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: