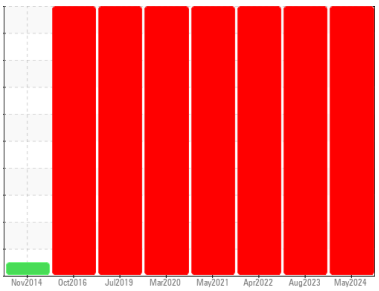
PROBLEM SUMMARY

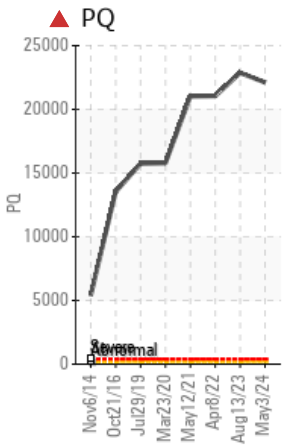
Sample Rating Trend

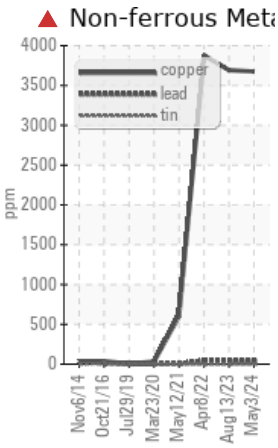


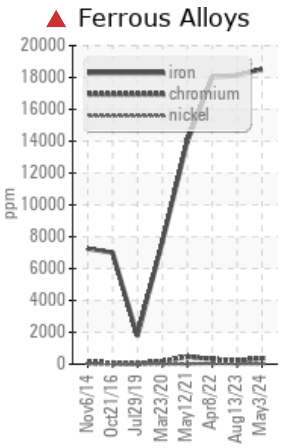
WEAR

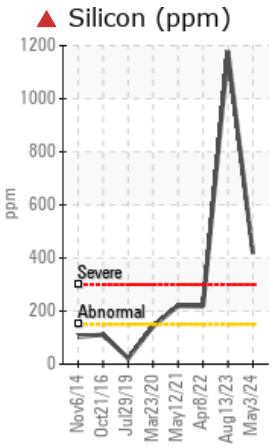
Machine Id
TURBINA 11 - FRONT BEARING
Component
Grease
Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

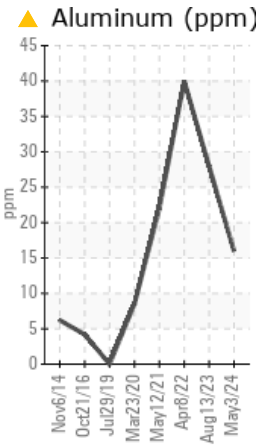
COMPONENT CONDITION SUMMARY











RECOMMENDATION

Recommend purge grease if not already done and flush before refilling with grease. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
PQ		ASTM D8184	>200	▲ **22116**	▲ 22870	▲ 21047
Iron	ppm	ASTM D5185m	>250	▲ **18515**	▲ 18128	▲ 18024
Chromium	ppm	ASTM D5185m	>10	▲ **360**	▲ 227	▲ 317
Nickel	ppm	ASTM D5185m	>5	▲ **23**	▲ 23	▲ 28
Lead	ppm	ASTM D5185m	>25	▲ **42**	▲ 40	▲ 46
Copper	ppm	ASTM D5185m	>75	▲ **3674**	▲ 3692	▲ 3878
Aluminum	ppm	ASTM D5185m		▲ **16**	▲ 28	▲ 40
Silicon	ppm	ASTM D5185m	>150	▲ **419**	▲ 1177	▲ 218

Customer Id: EOLOMAN
Sample No.: WC0881149
Lab Number: 06194936
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
Change Fluid	---	---	?	Recommend drain grease if not already done and flush with cleaner before refilling with grease.
Flush System	---	---	?	Recommend drain grease if not already done and flush with cleaner before refilling with grease.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR

13 Aug 2023 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.Bearing and/or bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. Elemental level of silicon (Si) above normal. The grease is no longer serviceable as a result of the abnormal and/or severe wear.

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.Bearing and/or bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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

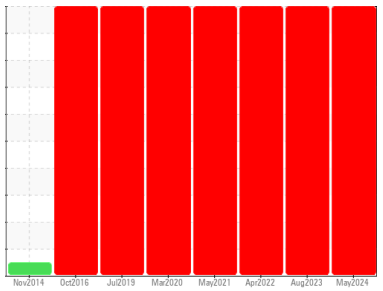
WEAR

12 May 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.Bearing and/or bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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 11 - FRONT BEARING
Component
Grease
Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

DIAGNOSIS

▲ Recommendation
Recommend purge grease if not already done and flush before refilling with grease. We recommend an early resample to monitor this condition.

▲ Wear
Bearing and/or bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

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

▲ Contaminants
Elemental level of silicon (Si) above normal.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0881149**	WC0831528	WC05582754
Sample Date		Client Info		**03 May 2024**	13 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**	SEVERE	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	▲ **22116**	▲ 22870	▲ 21047
Iron	ppm	ASTM D5185m	>250	▲ **18515**	▲ 18128	▲ 18024
Chromium	ppm	ASTM D5185m	>10	▲ **360**	▲ 227	▲ 317
Nickel	ppm	ASTM D5185m	>5	▲ **23**	▲ 23	▲ 28
Cadmium	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**4**	3	3
Vanadium	ppm	ASTM D5185m		**6**	6	6
Lead	ppm	ASTM D5185m	>25	▲ **42**	▲ 40	▲ 46
Copper	ppm	ASTM D5185m	>75	▲ **3674**	▲ 3692	▲ 3878
Tin	ppm	ASTM D5185m	>5	**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	2	0

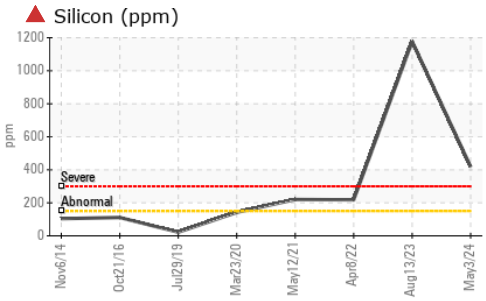
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**174**	166	186
Magnesium	ppm	ASTM D5185m		**5**	0	0
Manganese	ppm	ASTM D5185m		**335**	319	353
Molybdenum	ppm	ASTM D5185m		**3604**	3046	2114
Phosphorus	ppm	ASTM D5185m		**880**	648	445
Zinc	ppm	ASTM D5185m		**2712**	2356	2390
Antimony	ppm	ASTM D5185m		**---**	---	---

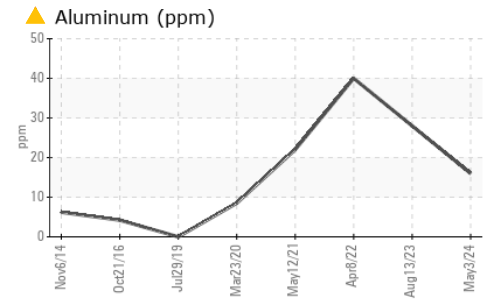
THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		▲ **16**	▲ 28	▲ 40
Barium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**59**	59	103
Sodium	ppm	ASTM D5185m		**26**	14	18
Lithium	ppm	ASTM D5185m		**2609**	2449	1844
Sulfur	ppm	ASTM D5185m		**5087**	4914	5515

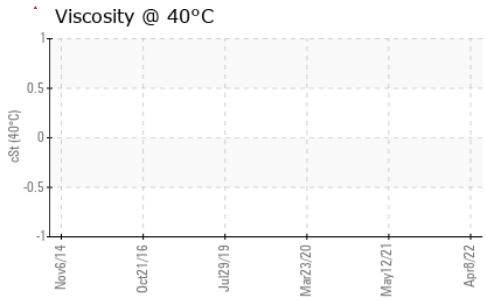
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	▲ **419**	▲ 1177	▲ 218
Potassium	ppm	ASTM D5185m		**10**	5	2

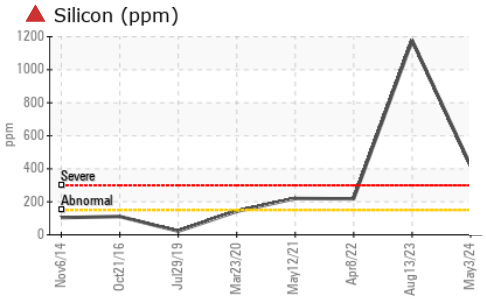
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color		*Visual	yellow	**Brown**	---	---
Texture		*In-house		**Buttery**	---	---
NLGI Consistency	NLGI Scale	*SKF Method	1	**1-2**	---	---

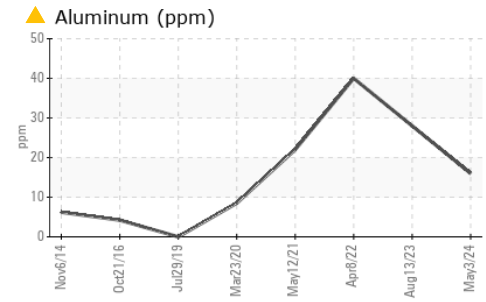
GREASE ANALYSIS





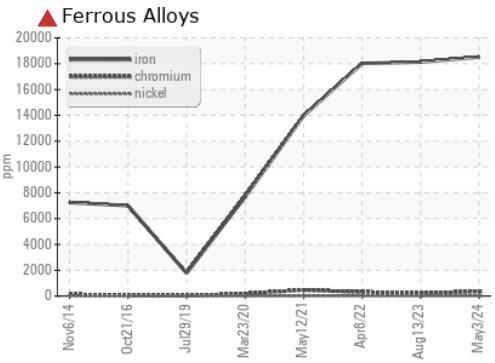


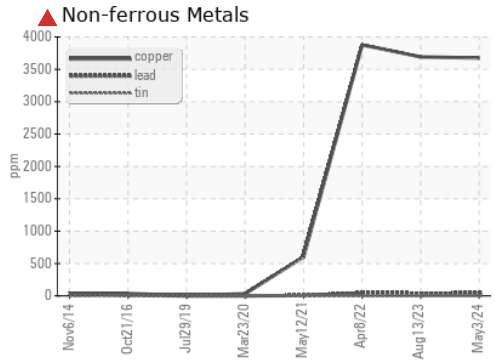


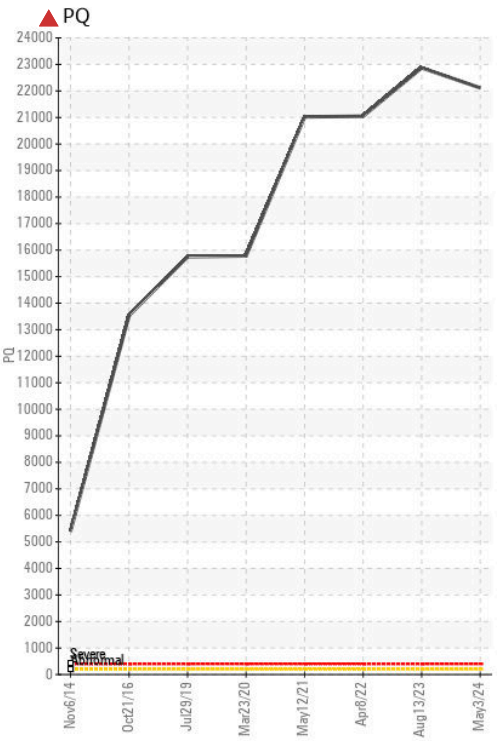


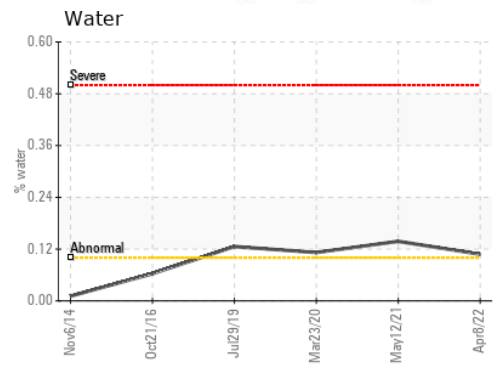
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter			*no image*	*no image*	*no image*

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0881149 **Received** : 29 May 2024
Lab Number : 06194936 **Tested** : 13 Jun 2024
Unique Number : 11057059 **Diagnosed** : 13 Jun 2024 - Doug Bogart
Test Package : GRS 1 (Additional Tests: KV40, SCREEN)

Certificate L2367

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)

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