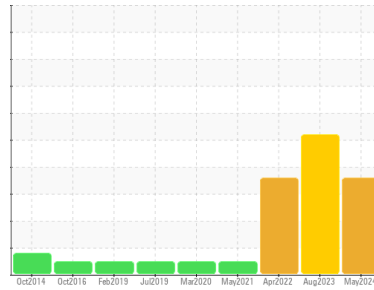




GREASE ANALYSIS

Sample Rating Trend



WEAR



Machine Id
TURBINA 03 - REAR BEARING (S/N 101310)
 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 level 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	WC0881141	WC0831521	WC05582724	
Sample Date	Client Info	05 May 2024	09 Aug 2023	06 Apr 2022	
Machine Age	yrs	Client Info	12	11	0
Grease Age	yrs	Client Info	1	1	6
Grease Serviced	Client Info	N/A	N/A	N/A	
Sample Status		ABNORMAL	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	▲ 2212	▲ 929	▲ 346
Iron	ppm ASTM D5185m >250	▲ 3480	▲ 1597	▲ 1164
Chromium	ppm ASTM D5185m >10	▲ 387	▲ 258	▲ 157
Nickel	ppm ASTM D5185m >5	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0
Titanium	ppm ASTM D5185m	1	1	<1
Vanadium	ppm ASTM D5185m	2	<1	<1
Lead	ppm ASTM D5185m >25	0	0	0
Copper	ppm ASTM D5185m >75	23	15	11
Tin	ppm ASTM D5185m >5	0	0	0
Silver	ppm ASTM D5185m >5	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	209	185	229
Magnesium	ppm ASTM D5185m	0	8	2
Manganese	ppm ASTM D5185m	38	20	15
Molybdenum	ppm ASTM D5185m	4180	2634	2502
Phosphorus	ppm ASTM D5185m	691	520	502
Zinc	ppm ASTM D5185m	291	254	131
Antimony	ppm ASTM D5185m	---	---	---

THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	0	<1	9
Barium	ppm ASTM D5185m	7	14	9
Calcium	ppm ASTM D5185m	83	90	134
Sodium	ppm ASTM D5185m	52	73	45
Lithium	ppm ASTM D5185m	3173	2400	2340
Sulfur	ppm ASTM D5185m	6118	5512	6629

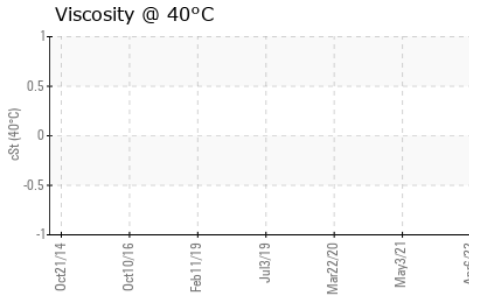
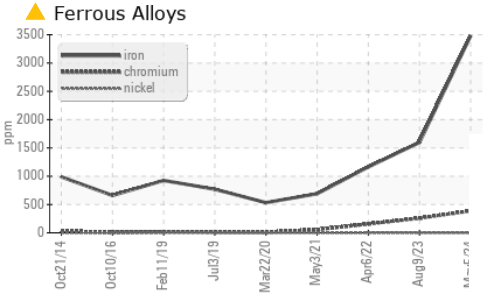
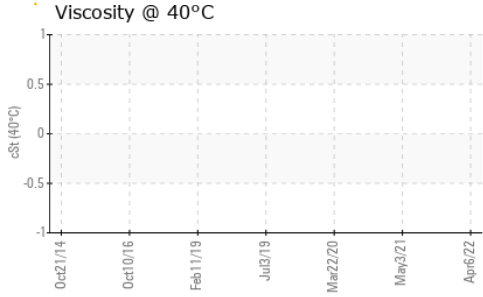
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >150	233	▲ 941	51
Potassium	ppm ASTM D5185m	7	8	5

GREASE CONDITION

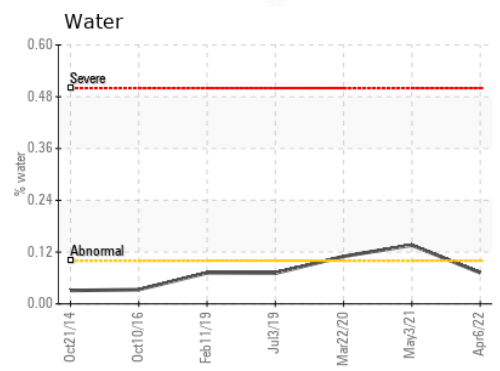
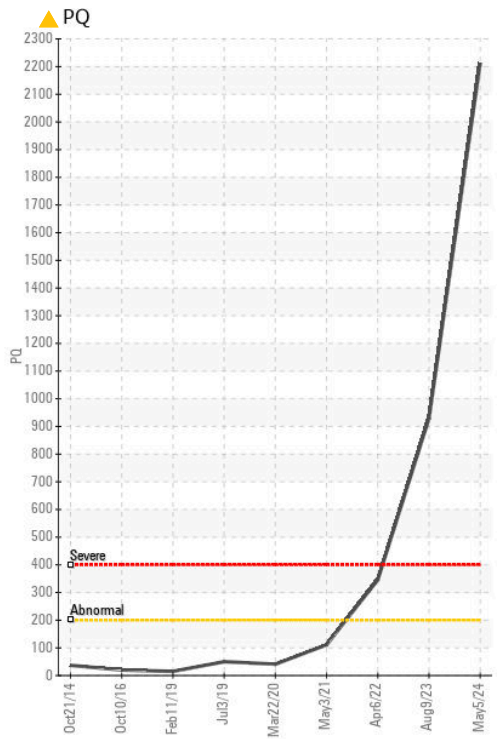
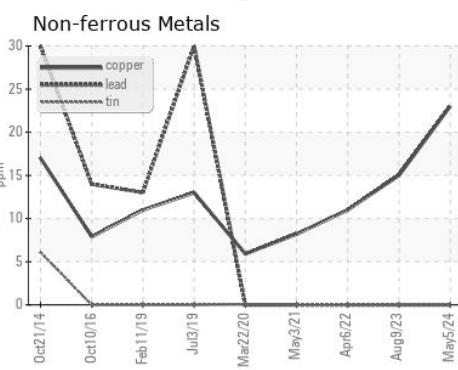
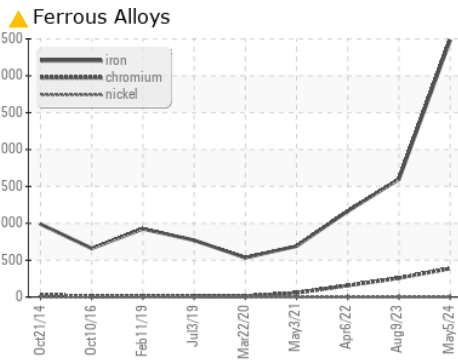
method	limit/base	current	history1	history2
Grease Color	*Visual yellow	Brown	---	---
Texture	*In-house	Buttery	---	---
NLGI Consistency	NLGI Scale *SKF Method 1	00-0	---	---

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. : WC0881141 **Received** : 29 May 2024
Lab Number : 06194903 **Tested** : 13 Jun 2024
Unique Number : 11057026 **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: