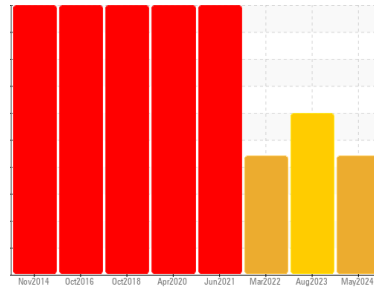




GREASE ANALYSIS

Sample Rating Trend



Machine Id
TURBINA 22 - FRONT BEARING (S/N 101168)
 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	WC0881145	WC0419933	WC05582746	
Sample Date	Client Info	04 May 2024	27 Aug 2023	31 Mar 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		ABNORMAL	ABNORMAL	MARGINAL	

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	▲ 6617	▲ 6699	▲ 5793
Iron	ppm ASTM D5185m >250	▲ 4392	▲ 2871	▲ 2888
Chromium	ppm ASTM D5185m >10	▲ 535	▲ 307	▲ 286
Nickel	ppm ASTM D5185m >5	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0
Titanium	ppm ASTM D5185m	2	1	<1
Vanadium	ppm ASTM D5185m	2	<1	<1
Lead	ppm ASTM D5185m >25	4	2	2
Copper	ppm ASTM D5185m >75	▲ 553	▲ 393	▲ 437
Tin	ppm ASTM D5185m >5	0	0	0
Silver	ppm ASTM D5185m >5	0	<1	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	242	192	191
Magnesium	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	75	43	46
Molybdenum	ppm ASTM D5185m	4922	2824	2366
Phosphorus	ppm ASTM D5185m	735	524	448
Zinc	ppm ASTM D5185m	778	384	376
Antimony	ppm ASTM D5185m	---	---	---

THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	0	<1	11
Barium	ppm ASTM D5185m	11	6	7
Calcium	ppm ASTM D5185m	186	114	153
Sodium	ppm ASTM D5185m	39	24	18
Lithium	ppm ASTM D5185m	3572	2443	2111
Sulfur	ppm ASTM D5185m	6992	5680	5509

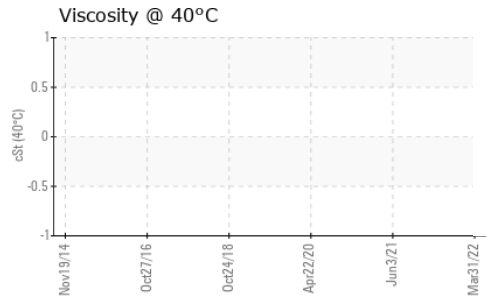
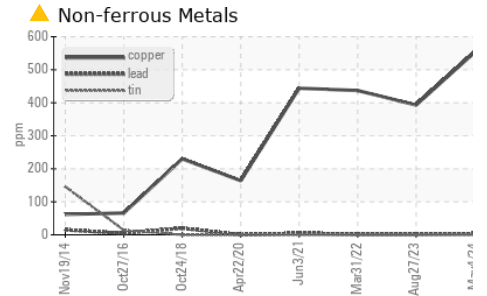
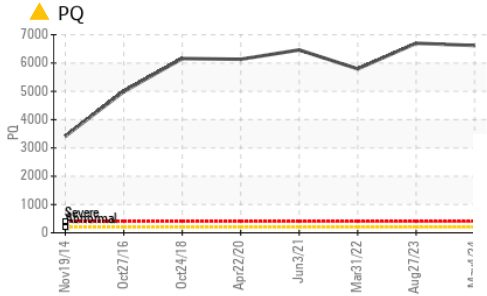
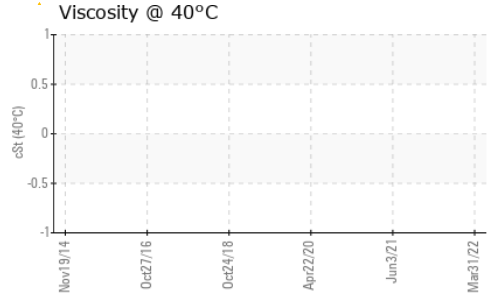
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >150	347	▲ 395	77
Potassium	ppm ASTM D5185m	7	2	2

GREASE CONDITION

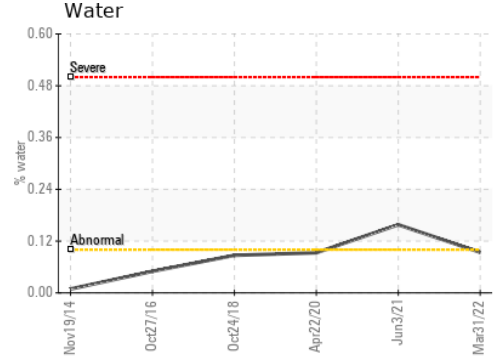
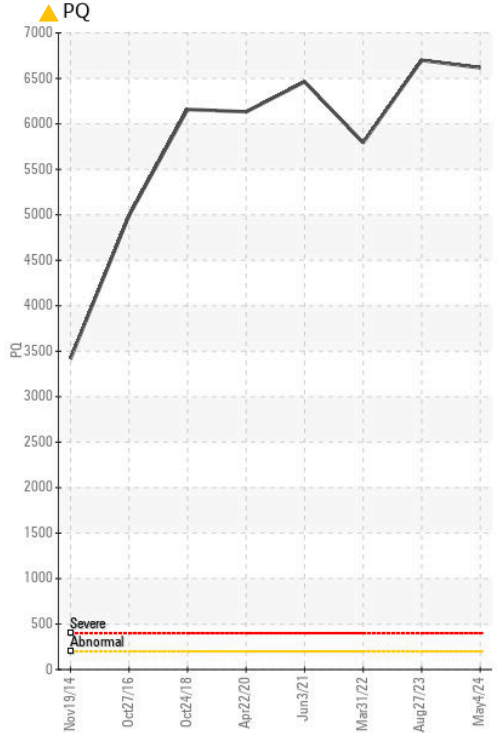
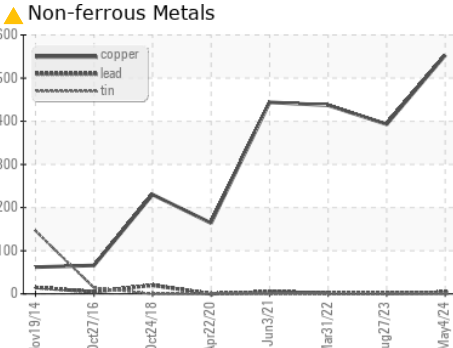
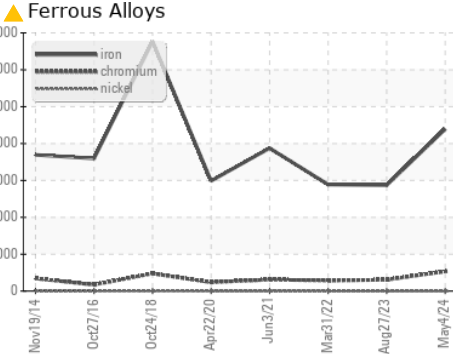
method	limit/base	current	history1	history2
Grease Color	*Visual yellow	Brown	---	---
Texture	*In-house	Buttery	---	---
NLGI Consistency	NLGI Scale *SKF Method 1	0-1	---	---

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. : WC0881145 **Received** : 29 May 2024
Lab Number : 06194929 **Tested** : 13 Jun 2024
Unique Number : 11057052 **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: