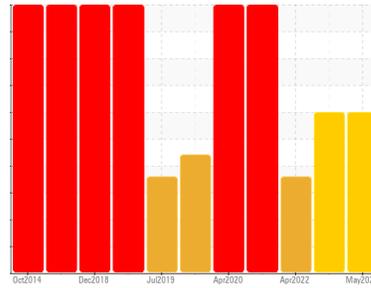




# GREASE ANALYSIS

Sample Rating Trend



Machine Id  
**TURBINA 19 - FRONT BEARING (S/N 101289)**  
 Component  
**Grease**  
 Fluid  
**KLUBER KLUBERPLEX BEM 41-141 (--- LTR)**

## DIAGNOSIS

**Recommendation**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates appear stable.

**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	<b>WC06194899</b>	WCI2352754	WCI2352765
Sample Date	Client Info	<b>14 May 2024</b>	23 Aug 2023	02 Apr 2022
Machine Age	yrs	Client Info	12	11
Grease Age	yrs	Client Info	1	0
Grease Serviced	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>MARGINAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184 >200	<b>▲ 15599</b>	▲ 13011	▲ 9730
Iron	ppm ASTM D5185m >250	<b>▲ 5389</b>	▲ 5261	▲ 4964
Chromium	ppm ASTM D5185m >10	<b>▲ 135</b>	▲ 130	▲ 99
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>2</b>	1	1
Vanadium	ppm ASTM D5185m	<b>1</b>	1	<1
Lead	ppm ASTM D5185m >25	<b>10</b>	5	0
Copper	ppm ASTM D5185m >75	<b>▲ 1329</b>	▲ 914	65
Tin	ppm ASTM D5185m >5	<b>0</b>	0	0
Silver	ppm ASTM D5185m >5	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>166</b>	171	183
Magnesium	ppm ASTM D5185m	<b>0</b>	0	1
Manganese	ppm ASTM D5185m	<b>108</b>	85	35
Molybdenum	ppm ASTM D5185m	<b>2901</b>	2802	2129
Phosphorus	ppm ASTM D5185m	<b>624</b>	516	385
Zinc	ppm ASTM D5185m	<b>1179</b>	838	157
Antimony	ppm ASTM D5185m	<b>---</b>	---	---

## THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	<b>0</b>	4	8
Barium	ppm ASTM D5185m	<b>&lt;1</b>	3	4
Calcium	ppm ASTM D5185m	<b>83</b>	88	114
Sodium	ppm ASTM D5185m	<b>28</b>	11	19
Lithium	ppm ASTM D5185m	<b>2296</b>	2521	2041
Sulfur	ppm ASTM D5185m	<b>4839</b>	5075	5301

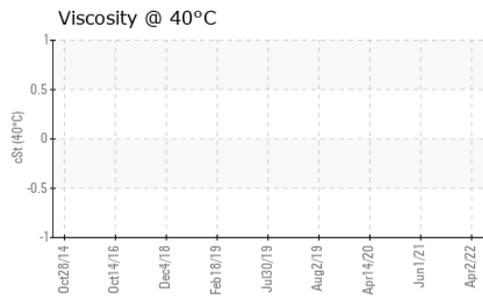
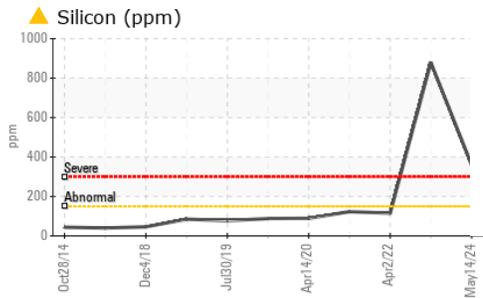
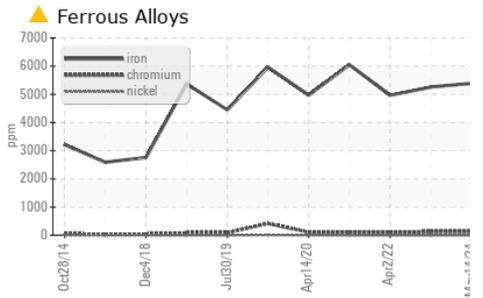
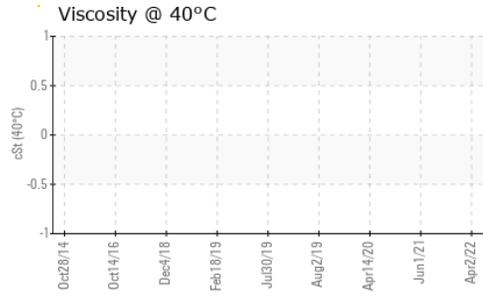
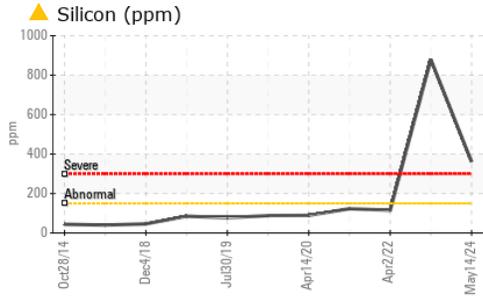
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >150	<b>▲ 361</b>	▲ 879	115
Potassium	ppm ASTM D5185m	<b>8</b>	<1	2

## GREASE CONDITION

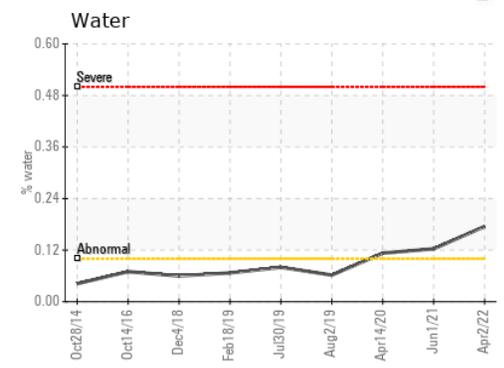
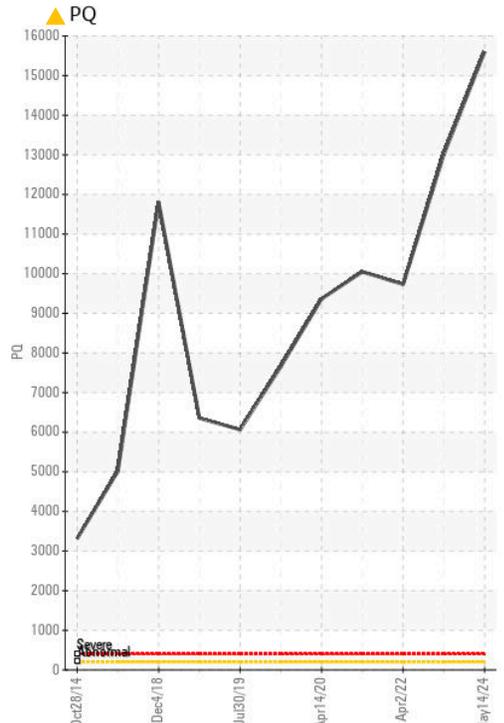
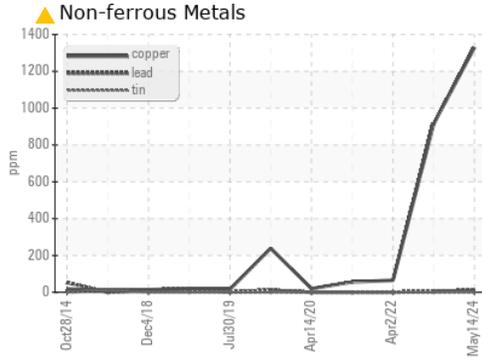
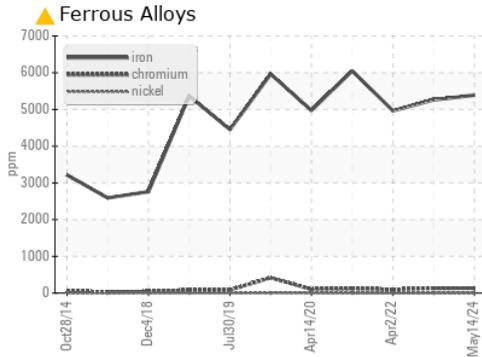
method	limit/base	current	history1	history2
Grease Color	*Visual yellow	<b>Brown</b>	---	---
Texture	*In-house	<b>Buttery</b>	---	---
NLGI Consistency	NLGI Scale *SKF Method 1	<b>0-1</b>	---	---

# 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.** : WC06194899      **Received** : 29 May 2024  
**Lab Number** : 06194899      **Tested** : 13 Jun 2024  
**Unique Number** : 11057022      **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)