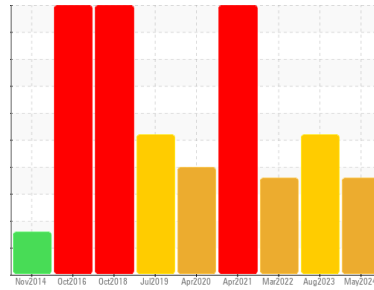




# GREASE ANALYSIS

Sample Rating Trend



WEAR



Machine Id  
**TURBINA 18 - FRONT BEARING (S/N 101292)**  
 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>WC0881119</b>	WC0419932	WC05582758	
Sample Date	Client Info	<b>03 May 2024</b>	22 Aug 2023	24 Mar 2022	
Machine Age	yrs	Client Info	<b>12</b>	11	6
Grease Age	yrs	Client Info	<b>1</b>	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>▲ 18688</b>	▲ 18267	▲ 15915	
Iron	ppm	ASTM D5185m >250	<b>▲ 8409</b>	▲ 8432	▲ 7183
Chromium	ppm	ASTM D5185m >10	<b>▲ 193</b>	▲ 177	▲ 94
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>	2	2
Vanadium	ppm	ASTM D5185m	<b>2</b>	1	<1
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >75	<b>24</b>	23	18
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>193</b>	206	188
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	1	2
Manganese	ppm	ASTM D5185m	<b>44</b>	42	38
Molybdenum	ppm	ASTM D5185m	<b>3401</b>	3027	2169
Phosphorus	ppm	ASTM D5185m	<b>594</b>	530	365
Zinc	ppm	ASTM D5185m	<b>284</b>	187	131
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---

## THICKENER/SOAP

method	limit/base	current	history1	history2	
Aluminum	ppm	ASTM D5185m	<b>0</b>	0	8
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<b>117</b>	116	139
Sodium	ppm	ASTM D5185m	<b>25</b>	22	18
Lithium	ppm	ASTM D5185m	<b>2784</b>	2636	2023
Sulfur	ppm	ASTM D5185m	<b>5603</b>	6091	5546

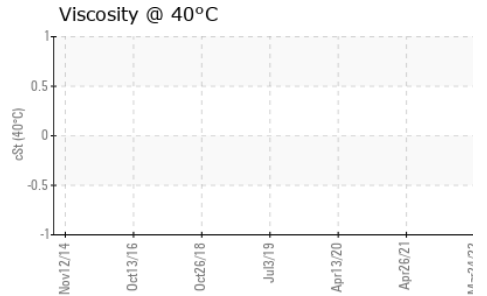
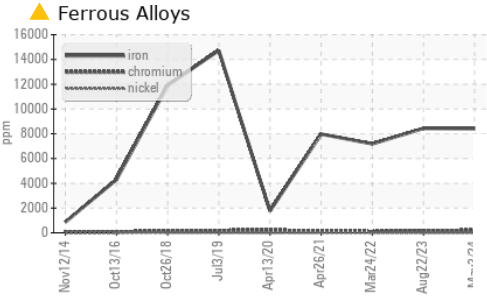
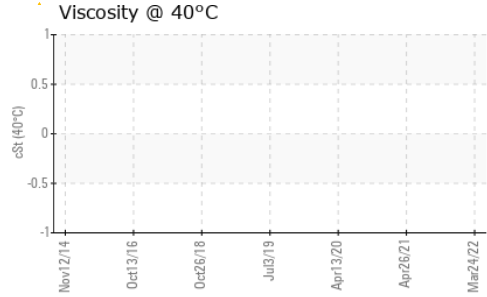
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >150	<b>319</b>	▲ 494	143
Potassium	ppm	ASTM D5185m	<b>6</b>	4	2

## GREASE CONDITION

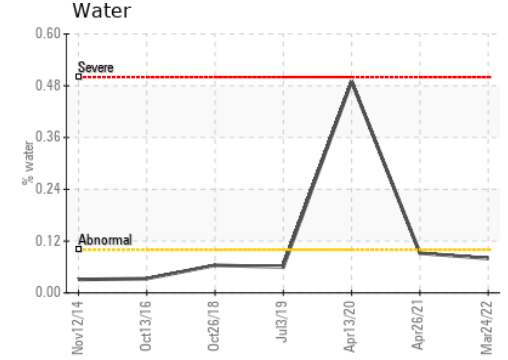
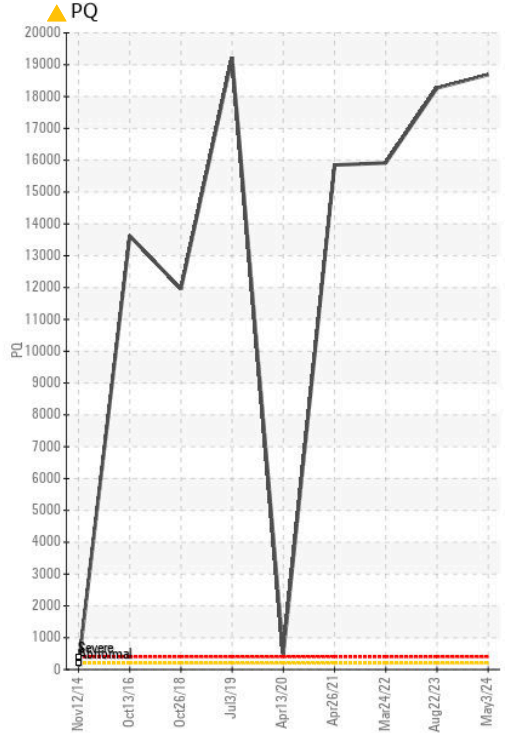
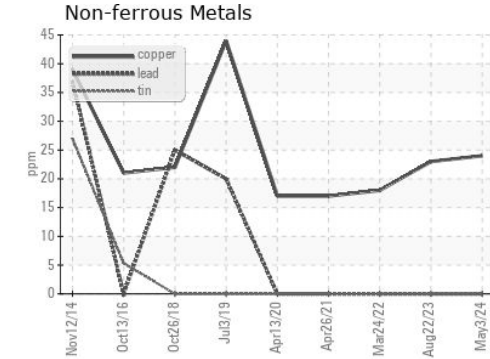
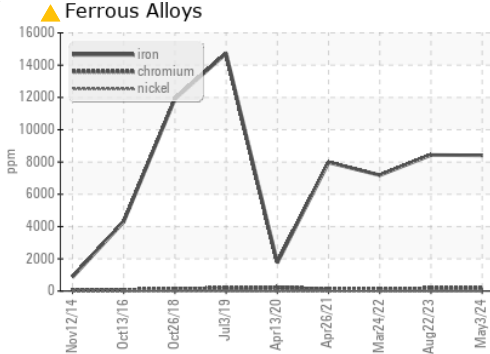
method	limit/base	current	history1	history2	
Grease Color	*Visual	yellow	<b>Brown</b>	---	---
Texture	*In-house		<b>Buttery</b>	---	---
NLGI Consistency	NLGI Scale *SKF Method	1	<b>0-1</b>	---	---

# 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.** : WC0881119      **Received** : 29 May 2024  
**Lab Number** : 06194932      **Tested** : 13 Jun 2024  
**Unique Number** : 11057055      **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)