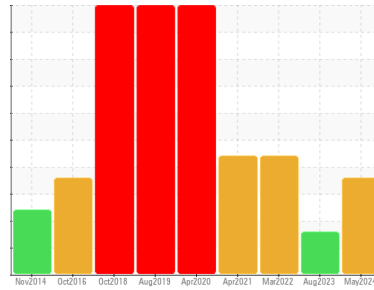




# GREASE ANALYSIS

Sample Rating Trend



WEAR



Machine Id  
**TURBINA 20 - FRONT BEARING (S/N 101181)**  
 Component  
**Grease**  
 Fluid  
**KLUBER KLUBERPLEX BEM 41-141 (--- LTR)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

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	<b>WC0881139</b>	WC0505300	WC05582727	
Sample Date	Client Info	<b>04 May 2024</b>	23 Aug 2023	30 Mar 2022	
Machine Age	yrs	Client Info	<b>2</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>ABNORMAL</b>	ABNORMAL	MARGINAL	

## 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>▲ 2638</b>	629	▲ 4514	
Iron	ppm	ASTM D5185m >250	<b>▲ 938</b>	215	▲ 3724
Chromium	ppm	ASTM D5185m >10	<b>▲ 14</b>	3	▲ 280
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>1</b>	2	2
Vanadium	ppm	ASTM D5185m	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m >25	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m >75	<b>32</b>	25	▲ 150
Tin	ppm	ASTM D5185m >5	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >5	<b>0</b>	7	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>165</b>	106	239
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	1
Manganese	ppm	ASTM D5185m	<b>3</b>	<1	35
Molybdenum	ppm	ASTM D5185m	<b>4935</b>	2813	2451
Phosphorus	ppm	ASTM D5185m	<b>971</b>	914	471
Zinc	ppm	ASTM D5185m	<b>277</b>	95	205
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---

## THICKENER/SOAP

method	limit/base	current	history1	history2	
Aluminum	ppm	ASTM D5185m	<b>0</b>	0	10
Barium	ppm	ASTM D5185m	<b>13</b>	9	8
Calcium	ppm	ASTM D5185m	<b>21</b>	19	154
Sodium	ppm	ASTM D5185m	<b>22</b>	13	24
Lithium	ppm	ASTM D5185m	<b>3341</b>	2938	2309
Sulfur	ppm	ASTM D5185m	<b>4823</b>	3172	6880

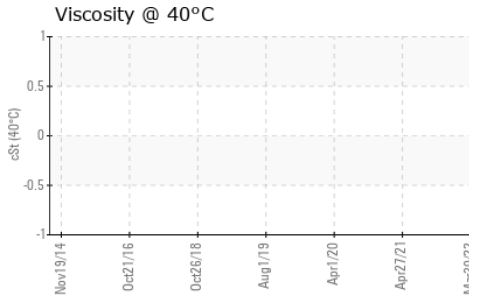
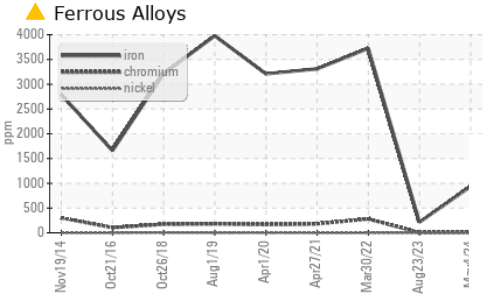
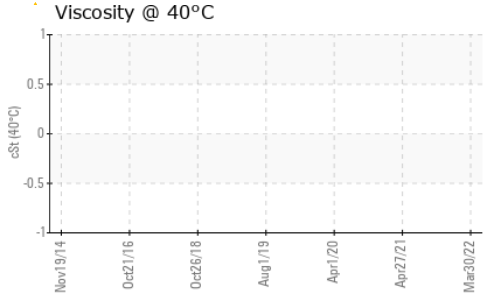
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >150	<b>249</b>	▲ 1089	95
Potassium	ppm	ASTM D5185m	<b>5</b>	1	3

## GREASE CONDITION

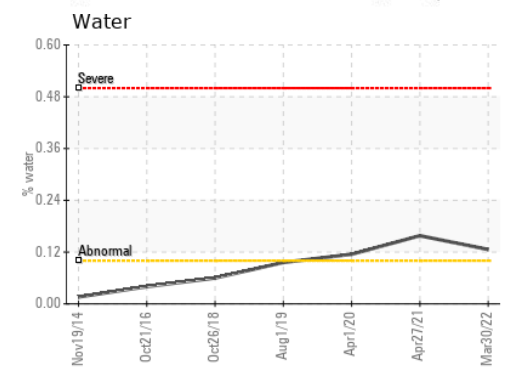
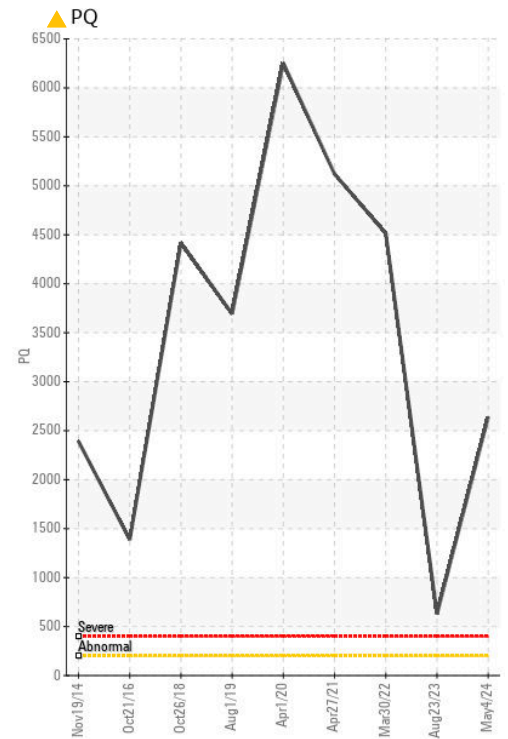
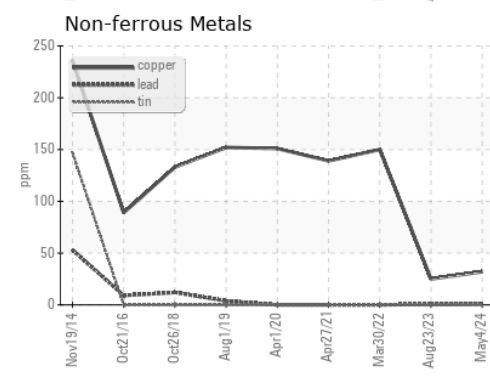
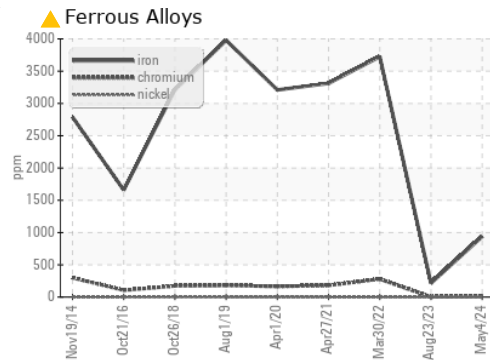
method	limit/base	current	history1	history2	
Grease Color	*Visual	yellow	<b>Yellow</b>	---	---
Texture	*In-house		<b>Short fiber</b>	---	---
NLGI Consistency	NLGI Scale *SKF Method	1	<b>0-1</b>	---	---

# 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.** : WC0881139      **Received** : 29 May 2024  
**Lab Number** : 06194934      **Tested** : 13 Jun 2024  
**Unique Number** : 11057057      **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: