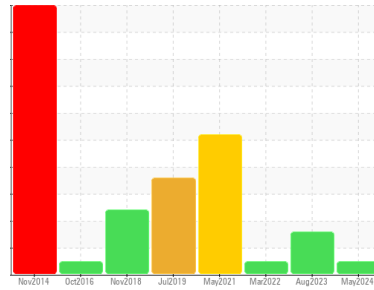




GREASE ANALYSIS

Sample Rating Trend



NORMAL



Machine Id
TURBINA 14 - REAR BEARING (S/N 101296)
 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 | | WC06194908 | WC0505283 | WC05582743 |
| Sample Date | Client Info | | 10 May 2024 | 15 Aug 2023 | 24 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 | | | NORMAL | ABNORMAL | NORMAL |

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 | 856 | 295 | 591 | |
| Iron | ppm | ASTM D5185m | >250 | 304 | 646 | 717 |
| Chromium | ppm | ASTM D5185m | >10 | 13 | 26 | 81 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 15 | 34 | 14 |
| Tin | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >5 | 0 | <1 | <1 |

ADDITIVES

| | method | limit/base | current | history1 | history2 | |
|------------|--------|-------------|---------|--------------|----------|------|
| Boron | ppm | ASTM D5185m | | 133 | 174 | 190 |
| Magnesium | ppm | ASTM D5185m | | 0 | 5 | 2 |
| Manganese | ppm | ASTM D5185m | | <1 | 3 | 7 |
| Molybdenum | ppm | ASTM D5185m | | 238 | 367 | 1192 |
| Phosphorus | ppm | ASTM D5185m | | 467 | 323 | 324 |
| Zinc | ppm | ASTM D5185m | | 32 | 217 | 259 |
| Antimony | ppm | ASTM D5185m | | --- | --- | --- |

THICKENER/SOAP

| | method | limit/base | current | history1 | history2 | |
|----------|--------|-------------|---------|--------------|----------|------|
| Aluminum | ppm | ASTM D5185m | | 0 | 3 | 5 |
| Barium | ppm | ASTM D5185m | | 0 | 7 | 14 |
| Calcium | ppm | ASTM D5185m | | 5 | 74 | 155 |
| Sodium | ppm | ASTM D5185m | | <1 | 12 | 17 |
| Lithium | ppm | ASTM D5185m | | 144 | 798 | 1601 |
| Sulfur | ppm | ASTM D5185m | | 3890 | 5159 | 5499 |

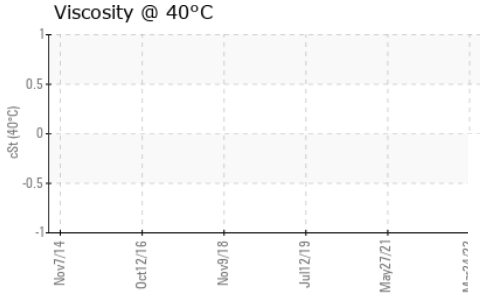
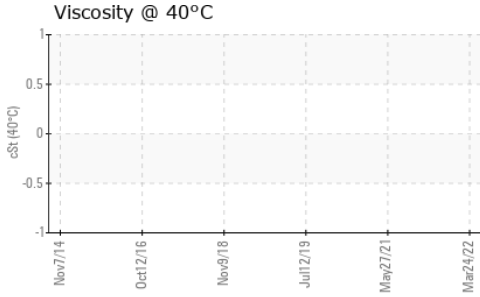
CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|-------------|---------|--------------|----------|----|
| Silicon | ppm | ASTM D5185m | >150 | 455 | ▲ 452 | 25 |
| Potassium | ppm | ASTM D5185m | | <1 | 1 | 3 |

GREASE CONDITION

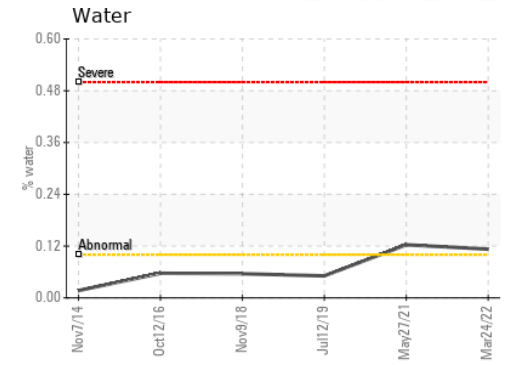
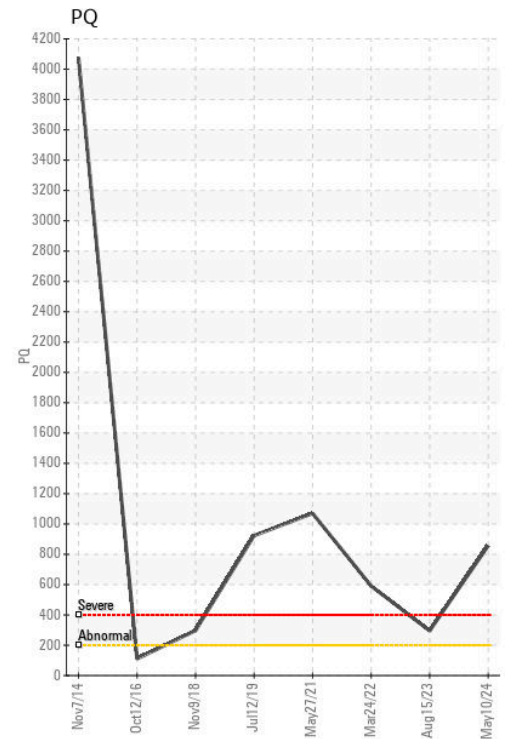
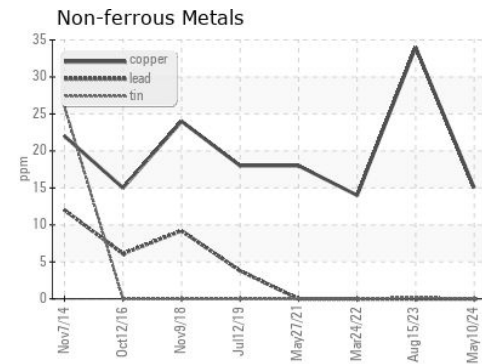
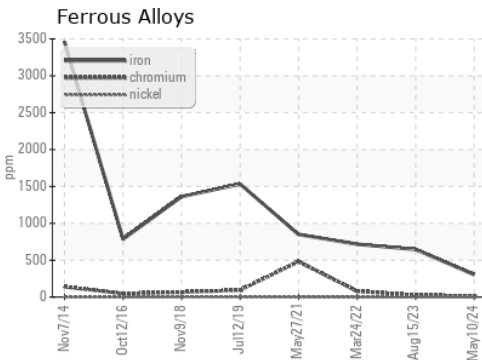
| | method | limit/base | current | history1 | history2 |
|------------------|------------------------|------------|----------------|----------|----------|
| Grease Color | *Visual | yellow | Yellow | --- | --- |
| Texture | *In-house | | Buttery | --- | --- |
| NLGI Consistency | NLGI Scale *SKF Method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

GREASE ANALYSIS



| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|----------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |
| PrtFilter | | | no image | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06194908 **Received** : 29 May 2024
Lab Number : 06194908 **Tested** : 13 Jun 2024
Unique Number : 11057031 **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: