



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
EAST CRANE
Machine Id
170831 (S/N MH-9164A)
Component
4 Slewing Gearbox
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

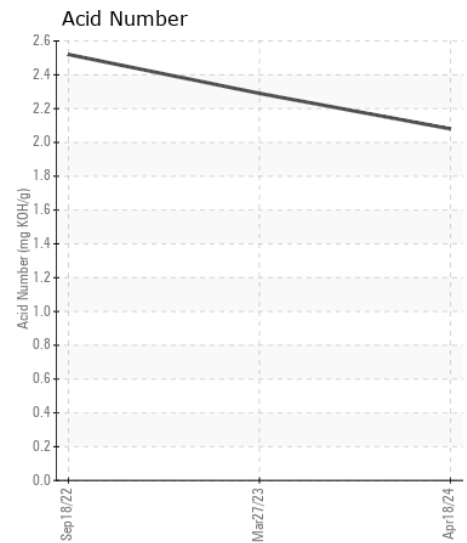
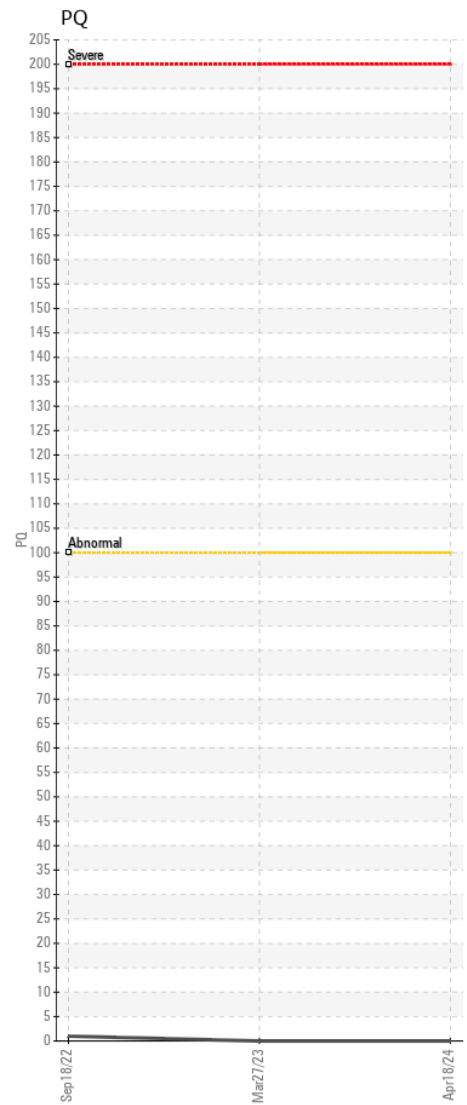
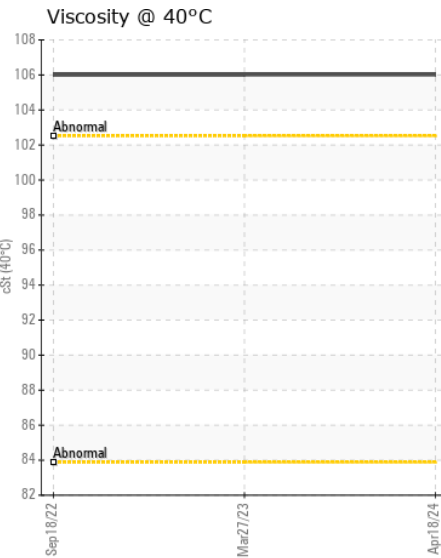
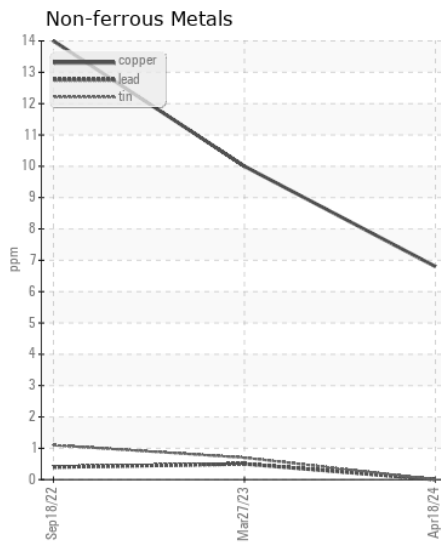
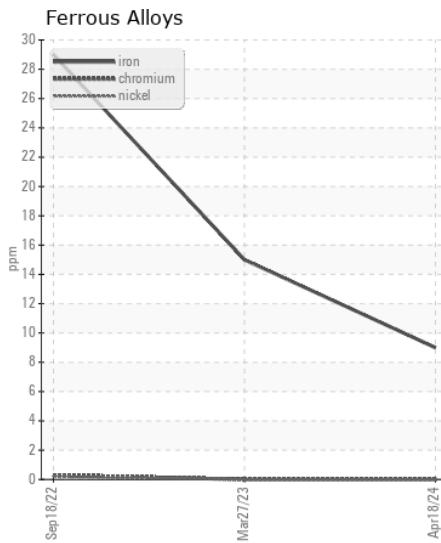
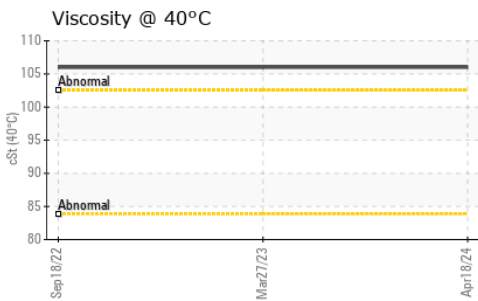
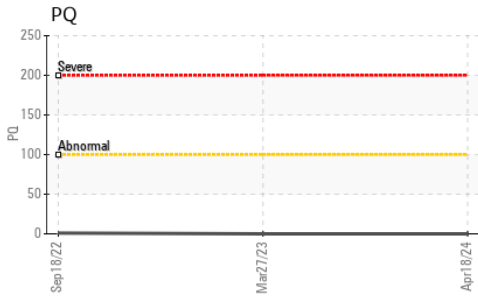
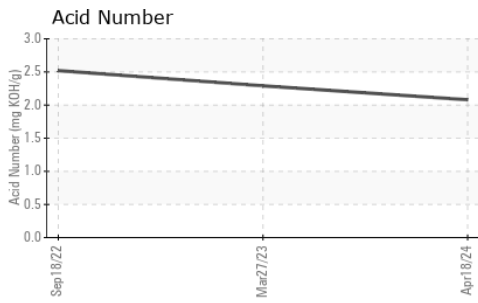
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|---------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PP | PP | PP |
| Sample Date | | Client Info | | 18 Apr 2024 | 27 Mar 2023 | 18 Sep 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| PQ | | ASTM D8184* | | 0 | 0 | 1 |
| Iron | ppm | ASTM D5185(m) | >50 | 9 | 15 | 29 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | | 0 | 2 | 6 |
| Lead | ppm | ASTM D5185(m) | >15 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >10 | 7 | 10 | 14 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | <1 | 1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185(m) | >25 | <1 | 7 | 16 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | VLITE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | | 1 | 1 | 6 |
| Boron | ppm | ASTM D5185(m) | | 282 | 358 | 527 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 36 | 295 | 949 |
| Calcium | ppm | ASTM D5185(m) | | 2 | 13 | 43 |
| Phosphorus | ppm | ASTM D5185(m) | | 1351 | 1592 | 1725 |
| Zinc | ppm | ASTM D5185(m) | | 7 | 7 | 14 |
| Sulfur | ppm | ASTM D5185(m) | | 22041 | 24053 | 21359 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | | 2.08 | 2.29 | 2.52 |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 106 | 106 | 106 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP **Received** : 19 Apr 2024
Lab Number : 02630378 **Tested** : 22 Apr 2024
Unique Number : 5763510 **Diagnosed** : 22 Apr 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

HIBERNIA MGMT & DEVELOPMENT CO. LTD
 SUITE 1000,, 100 NEW GOWER STREET
 ST.JOHN'S, NL
 CA A1C 6K3
 Contact: Sam Nash
 samantha.m.nash@exxonmobil.com
 T:
 F: (709)722-3766

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.