



OIL ANALYSIS REPORT

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

Area
[MC-001352-1]
 Machine Id
410000047790 - RACK D (S/N 500392-104)
 Component
Reciprocating Compressor
 Fluid
BITZER BSE 85K (10 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

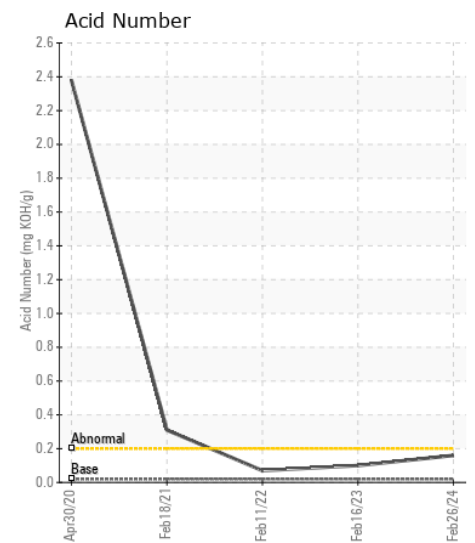
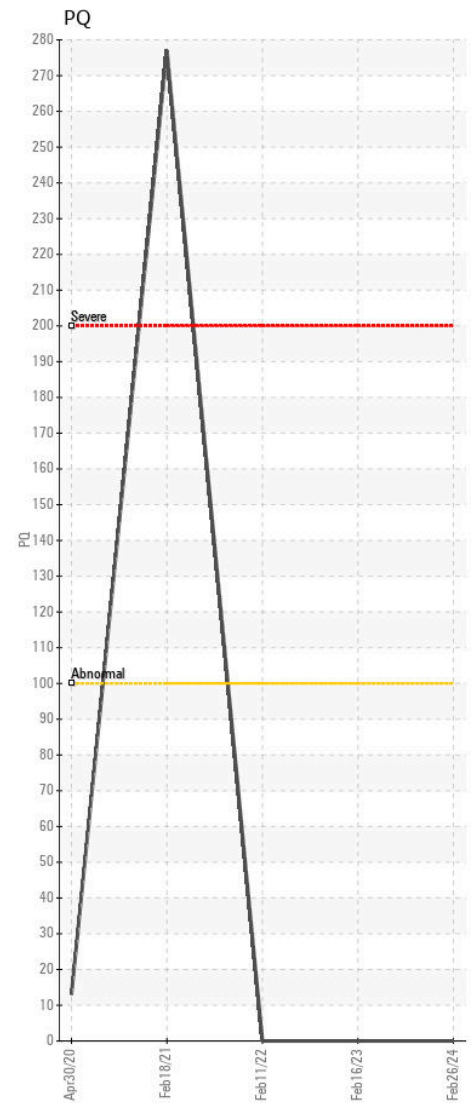
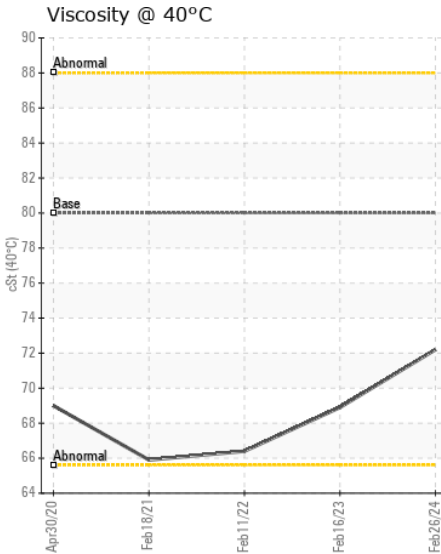
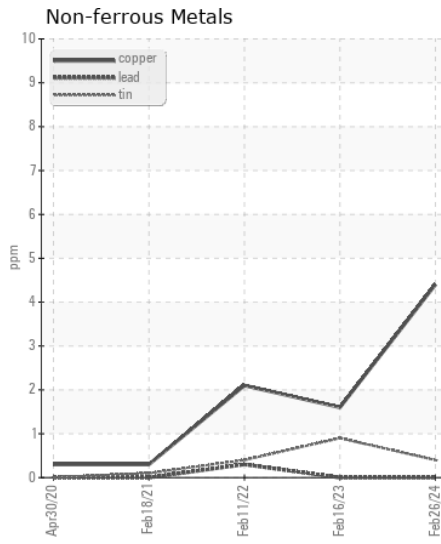
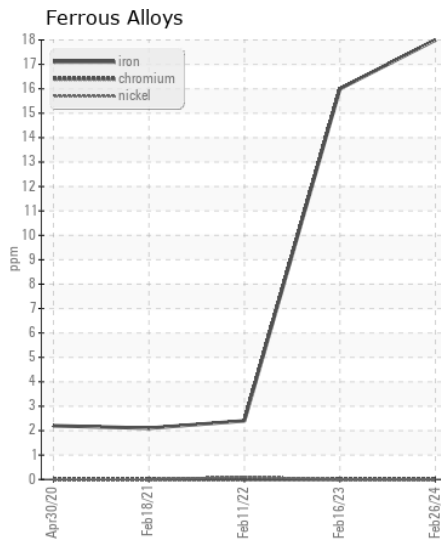
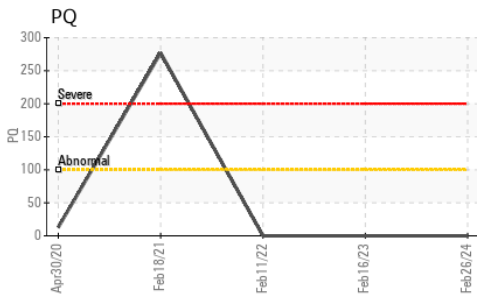
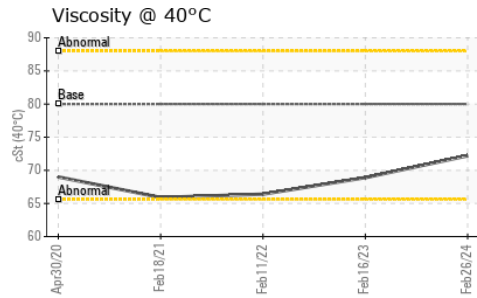
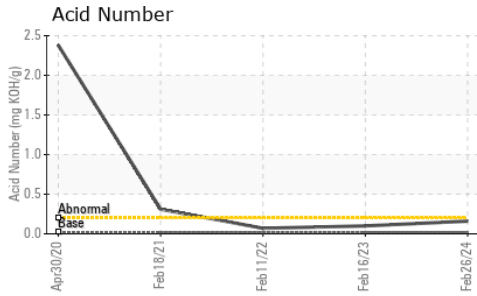
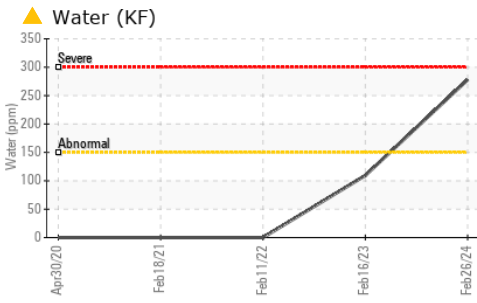
CONTAMINATION

There is a moderate concentration of water present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|---------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0907720 | WC0789023 | WC0668582 |
| Sample Date | | Client Info | | 26 Feb 2024 | 16 Feb 2023 | 11 Feb 2022 |
| Machine Age | mths | Client Info | | 0 | 0 | 4 |
| Oil Age | mths | Client Info | | 0 | 0 | 2 |
| Filter Age | mths | Client Info | | 8 | 0 | 1 |
| Oil Changed | | Client Info | | N/A | N/A | Filtered |
| Filter Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |
| PQ | | ASTM D8184* | | 0 | 0 | 0 |
| Iron | ppm | ASTM D5185(m) | >50 | 18 | 16 | 2 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >25 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185(m) | >25 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >50 | 4 | 2 | 2 |
| Tin | ppm | ASTM D5185(m) | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | ▲ VLITE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185(m) | >25 | 4 | 7 | 8 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Water | % | ASTM D6304* | >0.015 | ▲ 0.027 | 0.010 | --- |
| ppm Water | ppm | ASTM D6304* | >150 | ▲ 278 | 109.4 | --- |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | VLITE |
| 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* | >0.015 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | | <1 | 1 | <1 |
| Boron | ppm | ASTM D5185(m) | 0 | <1 | 2 | 2 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | 1200 | 1052 | 1145 | 1194 |
| Zinc | ppm | ASTM D5185(m) | 0 | 7 | 8 | <1 |
| Sulfur | ppm | ASTM D5185(m) | 0 | 0 | 4 | 3 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.02 | 0.16 | 0.10 | 0.07 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 80 | 72.2 | 68.9 | 66.4 |



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0907720 **Received** : 06 Mar 2024
Lab Number : 02620219 **Tested** : 11 Mar 2024
Unique Number : 5737329 **Diagnosed** : 11 Mar 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF, TAN Man)

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.

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