



OIL ANALYSIS REPORT

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



Machine Id
BELL B30E B93A631ET03010079
 Component
Rear Left Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | BE0009033 | --- | --- |
| Sample Date | | Client Info | | 09 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 1992 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

The copper level is abnormal. All other component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|--------|--------------|-----|-----|
| PQ | | ASTM D8184 | >3000 | 91 | --- | --- |
| Iron | ppm | ASTM D5185m | >HR:1= | 347 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 6 | --- | --- |
| Lead | ppm | ASTM D5185m | >25 | 1 | --- | --- |
| Copper | ppm | ASTM D5185m | >50 | ▲ 129 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

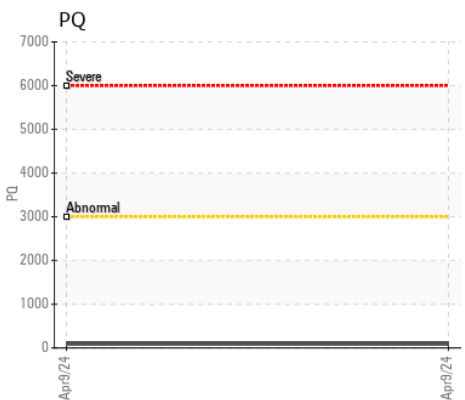
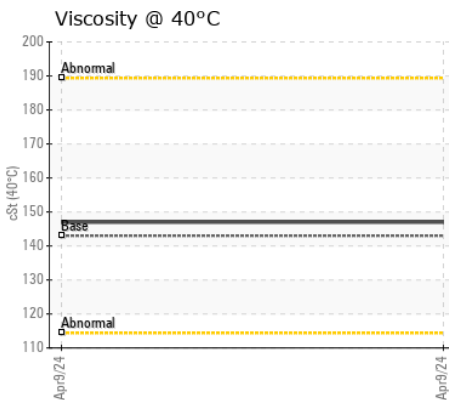
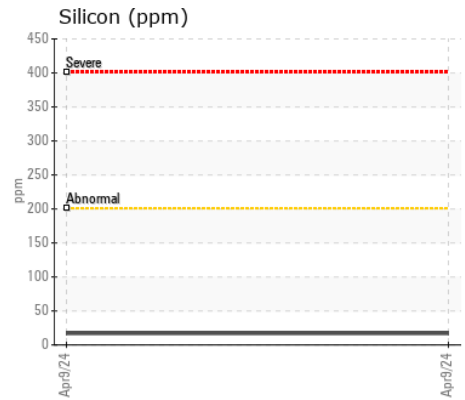
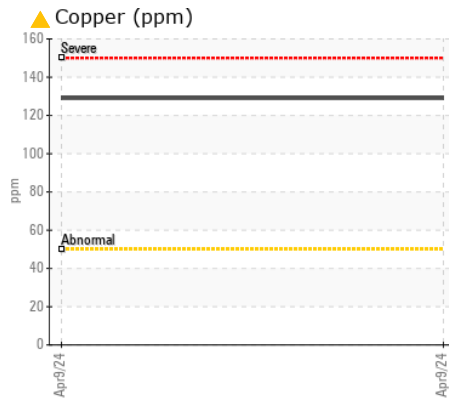
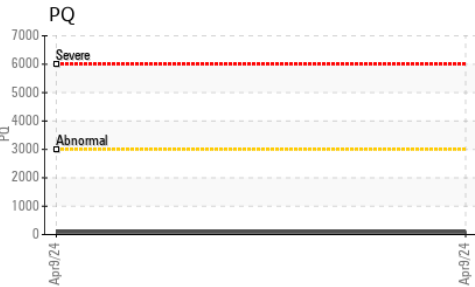
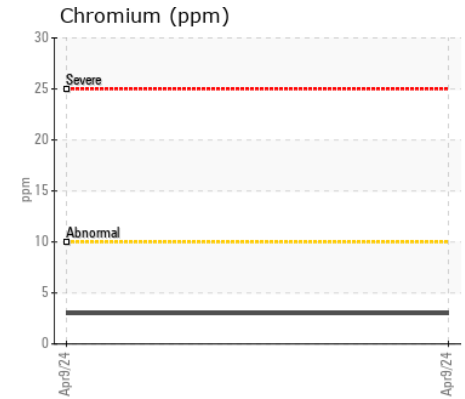
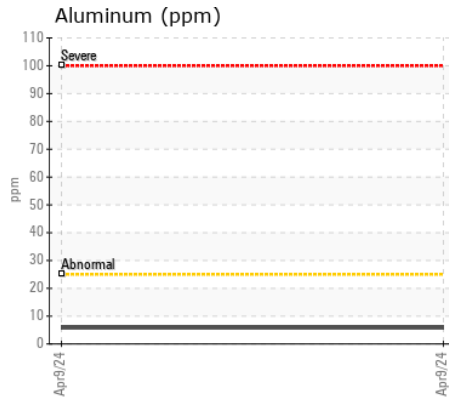
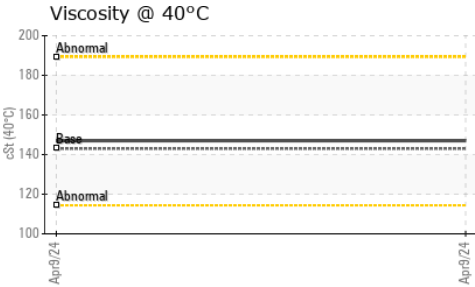
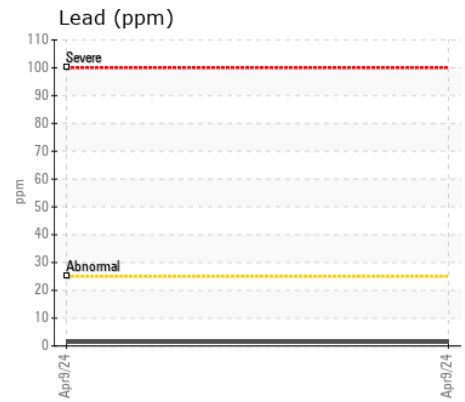
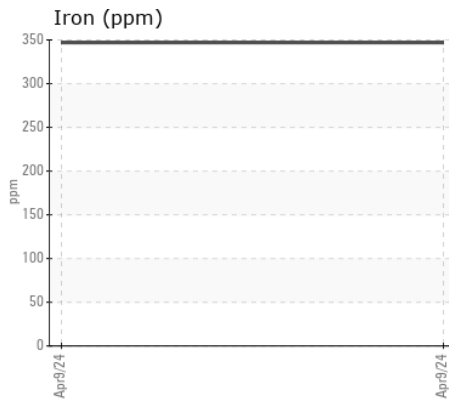
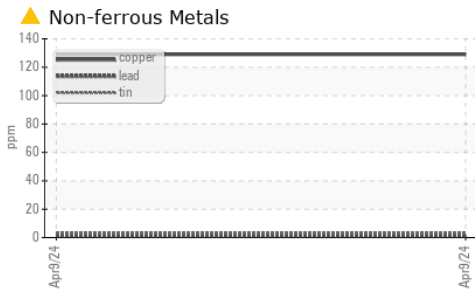
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >201 | 17 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | --- | --- |
| Water | | WC Method | >1.01 | NEG | --- | --- |
| Silt | scalar | *Visual | NONE | LIGHT | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >1.01 | NEG | --- | --- |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-----|-----|
| Sodium | ppm | ASTM D5185m | >170 | 2 | --- | --- |
| Boron | ppm | ASTM D5185m | 400 | 2 | --- | --- |
| Barium | ppm | ASTM D5185m | 200 | 1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | 3 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 7 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 12 | 16 | --- | --- |
| Calcium | ppm | ASTM D5185m | 150 | 97 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | 545 | --- | --- |
| Zinc | ppm | ASTM D5185m | 125 | 83 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | 18728 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 147 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0009033
Lab Number : 06148994
Unique Number : 10979072
Test Package : MOBCE

Received : 15 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 17 Apr 2024 - Sean Felton

National Equipment Dealers LLC NE
 215 Woodside Drive
 Lexington, NC
 US 27292
 Contact: Steven Gawthrop
 sgawthrop@nedealers.com

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)

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F: