



OIL ANALYSIS REPORT

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



Area
[276792]
 Machine Id
BELL B50E B93A650EH03007613
 Component
Transfer Case
 Fluid
GEAR OIL LS 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 | | BE0003152 | --- | --- |
| Sample Date | | Client Info | | 09 Jul 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 4196 | --- | --- |
| 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 iron level is abnormal. The lead level is abnormal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| PQ | | ASTM D8184 | >45 | 42 | --- | --- |
| Iron | ppm | ASTM D5185m | >75 | ▲ 83 | --- | --- |
| Chromium | ppm | ASTM D5185m | >5 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Lead | ppm | ASTM D5185m | >150 | ▲ 208 | --- | --- |
| Copper | ppm | ASTM D5185m | >30 | 28 | --- | --- |
| Tin | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

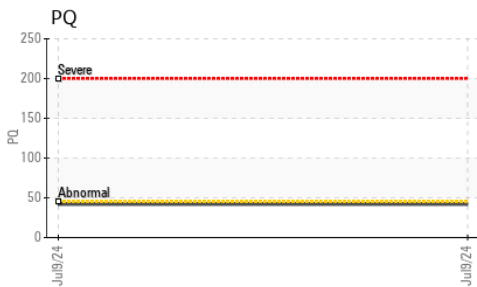
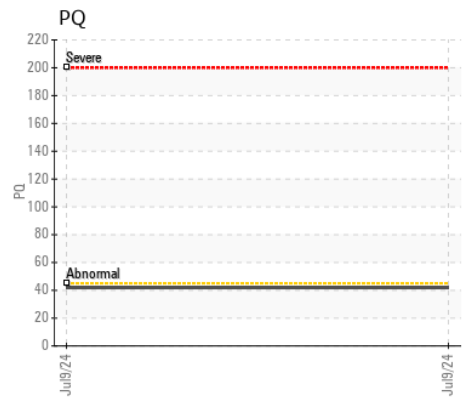
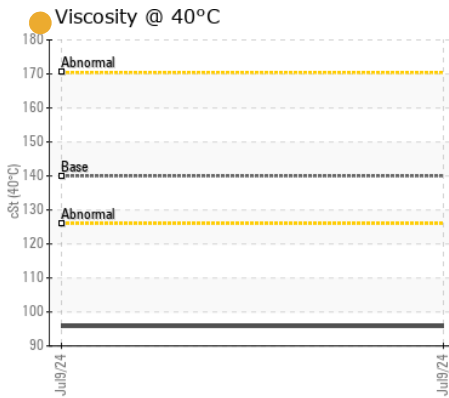
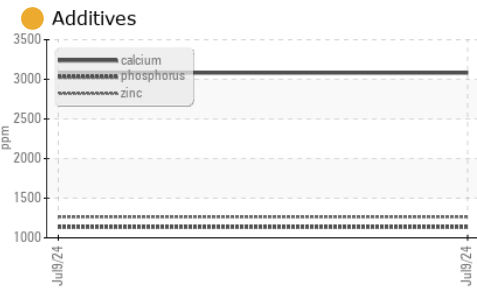
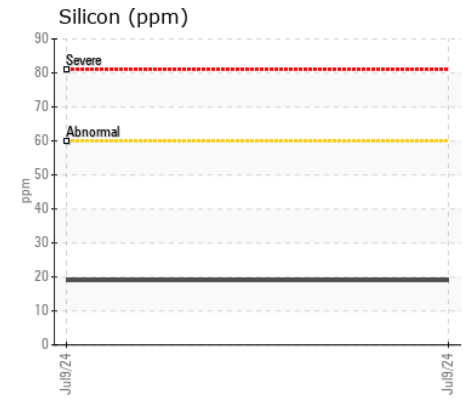
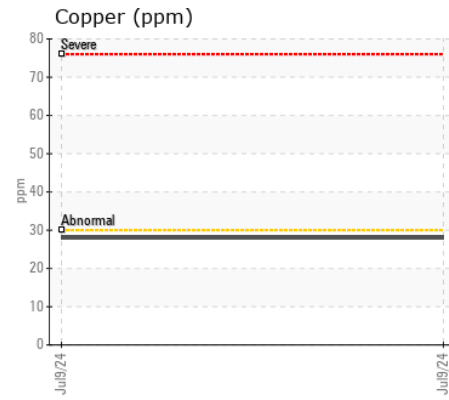
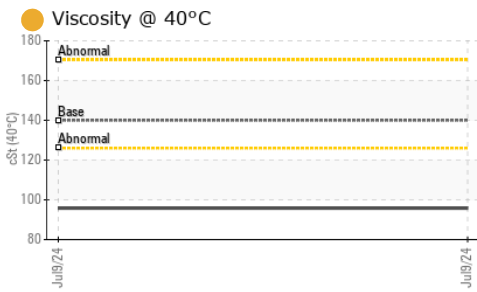
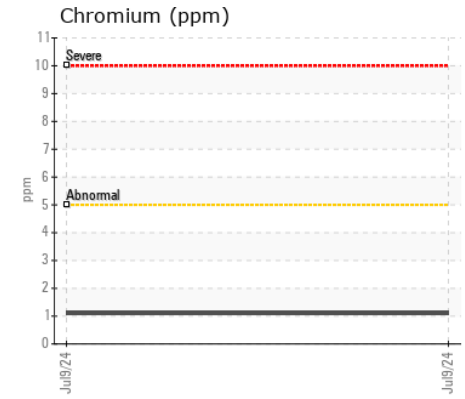
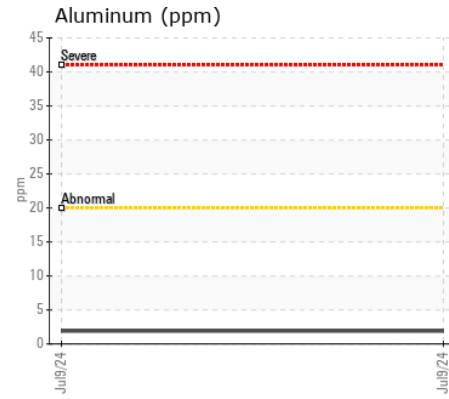
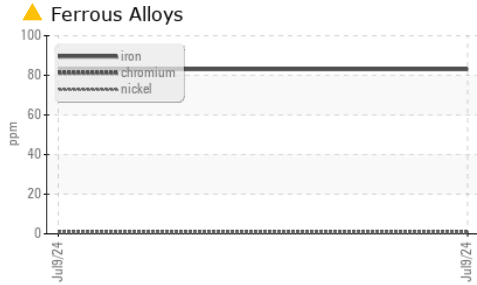
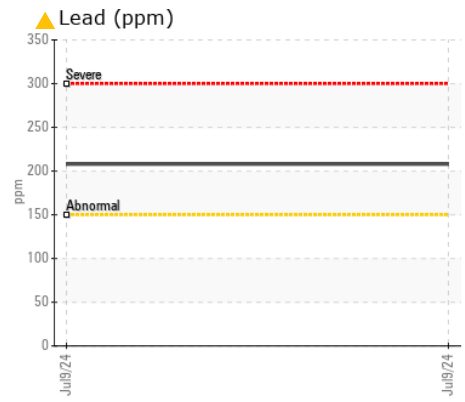
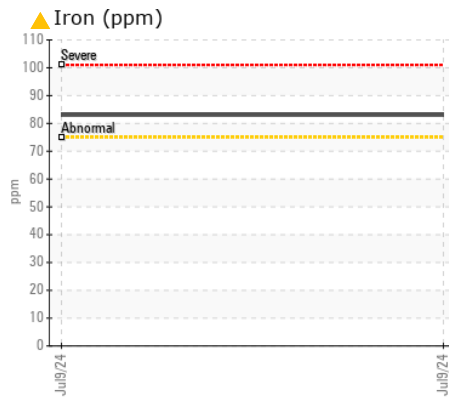
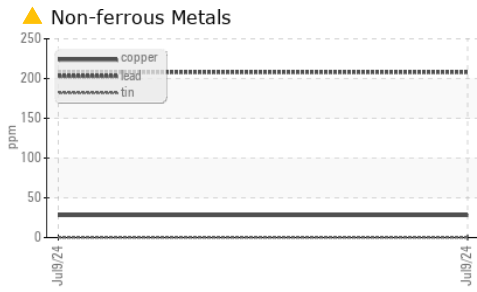
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|--------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >60 | 19 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Water | | WC Method | >0.201 | NEG | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | LIGHT | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.201 | NEG | --- | --- |

FLUID CONDITION

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

| | | | | | | |
|-------------|-----|-------------|-------|---------------|-----|-----|
| Sodium | ppm | ASTM D5185m | | 11 | --- | --- |
| Boron | ppm | ASTM D5185m | 150 | 92 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 3 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 2 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 10 | 10 | --- | --- |
| Calcium | ppm | ASTM D5185m | 70 | ● 3081 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 2000 | 1137 | --- | --- |
| Zinc | ppm | ASTM D5185m | 50 | ● 1263 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 20000 | ● 7493 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 140 | ● 95.8 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : BE0003152

Lab Number : 06236471

Unique Number : 11125305

Test Package : MOBCE

Received : 15 Jul 2024

Tested : 16 Jul 2024

Diagnosed : 17 Jul 2024 - Sean Felton

Four Seasons Equipment Inc.

8111 Mills Road

Houston, TX

US 77064

Contact: Vaughan Phillips

vphillips@fourseasons-equip.com

T: (800)234-5007

F:

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)