



# OIL ANALYSIS REPORT

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



Area  
**[276792]**  
 Machine Id  
**BELL B50E B93A650EH03007613**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | BE0003150   | ---      | ---      |
| 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  |     |             |           | NORMAL      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| PQ           |        | ASTM D8184  |      | 12   | --- | --- |
| Iron         | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <1   | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <1   | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <1   | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >10  | 3    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >10  | 0    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >75  | <1   | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | 0    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

## CONTAMINATION

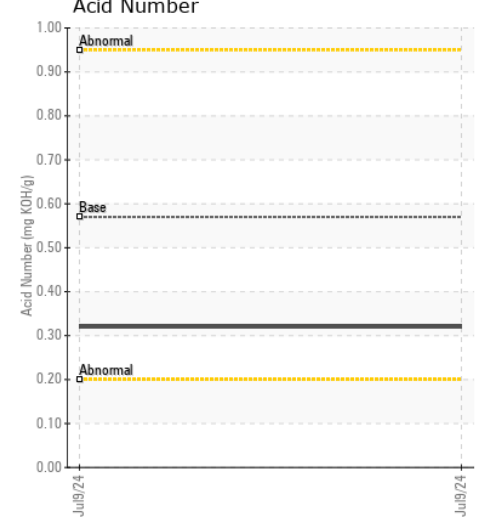
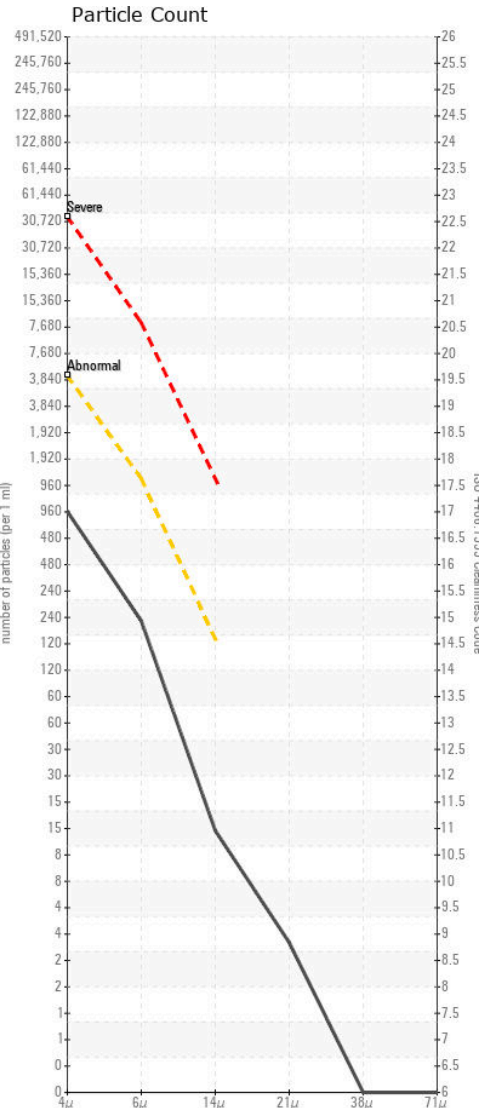
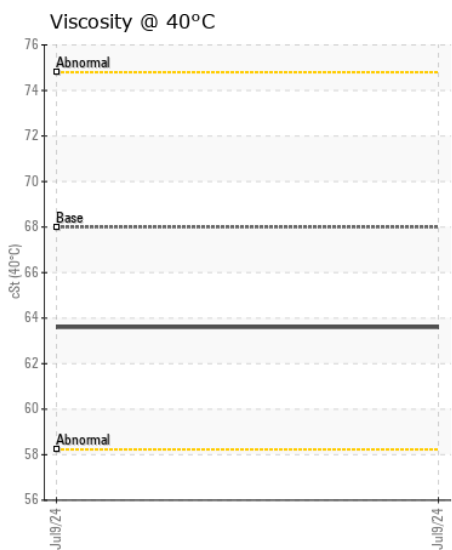
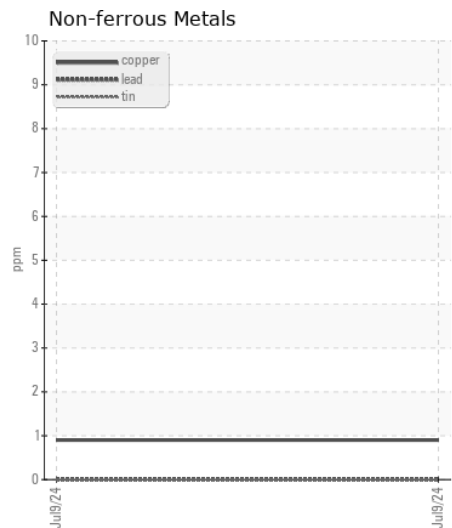
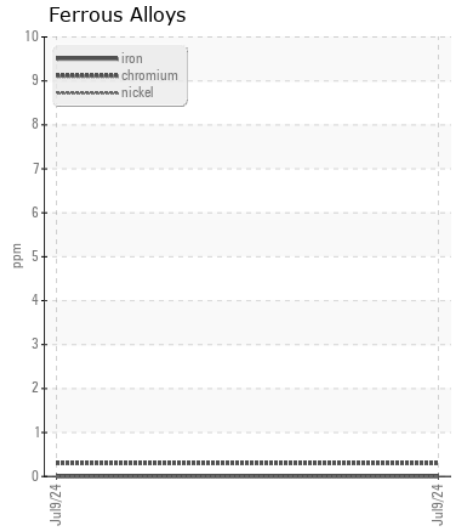
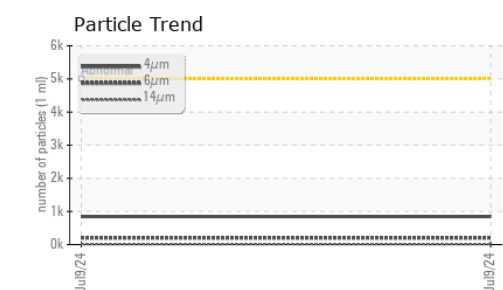
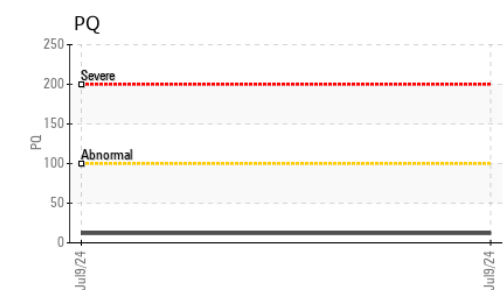
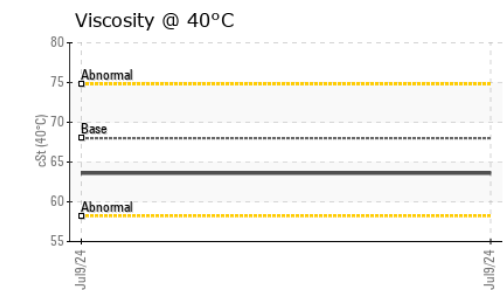
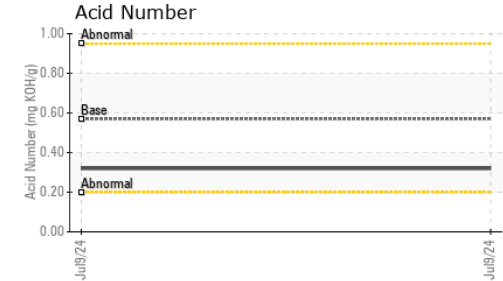
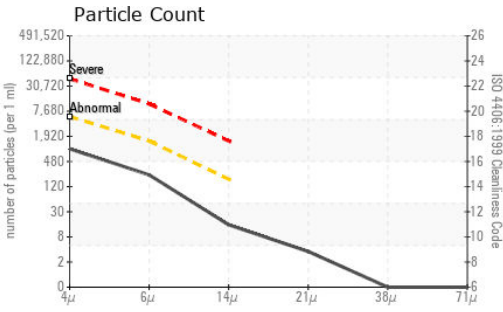
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

|                  |        |              |           |          |     |     |
|------------------|--------|--------------|-----------|----------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >20       | <1       | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | <1       | --- | --- |
| Water            |        | WC Method    | >0.1      | NEG      | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >5000     | 847      | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >1300     | 202      | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >160      | 13       | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >40       | 3        | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >10       | 0        | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >3        | 0        | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | 17/15/11 | --- | --- |
| 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      | >0.1      | NEG      | --- | --- |

## FLUID CONDITION

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

|                  |          |             |      |      |     |     |
|------------------|----------|-------------|------|------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |      | 0    | --- | --- |
| Boron            | ppm      | ASTM D5185m | 5    | 2    | --- | --- |
| Barium           | ppm      | ASTM D5185m | 5    | <1   | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m | 5    | <1   | --- | --- |
| Manganese        | ppm      | ASTM D5185m |      | 0    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m | 25   | 14   | --- | --- |
| Calcium          | ppm      | ASTM D5185m | 200  | 70   | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m | 300  | 248  | --- | --- |
| Zinc             | ppm      | ASTM D5185m | 370  | 303  | --- | --- |
| Sulfur           | ppm      | ASTM D5185m | 2500 | 1040 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 0.57 | 0.32 | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 68   | 63.6 | --- | --- |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : BE0003150 **Received** : 15 Jul 2024  
**Lab Number** : 06235766 **Tested** : 16 Jul 2024  
**Unique Number** : 11124600 **Diagnosed** : 16 Jul 2024 - Don Baldridge  
**Test Package** : MOBCE

**Four Seasons Equipment Inc.**  
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 Houston, TX  
 US 77064  
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 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)