



|                 |                 |
|-----------------|-----------------|
| WEAR            | <b>NORMAL</b>   |
| CONTAMINATION   | <b>ABNORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b>   |

Machine Id  
**NO INFO ON SIF/BOTTLE**

Component  
**Hydraulic System**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>JR0209186</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>16 Apr 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ---      | ---      |

### WEAR

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
|              |        | ASTM D8184  |           | <b>23</b>    | ---      | ---      |
| Iron         | ppm    | ASTM D5185m | >20       | <b>&lt;1</b> | ---      | ---      |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>0</b>     | ---      | ---      |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>     | ---      | ---      |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | ---      | ---      |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | ---      | ---      |
| Aluminum     | ppm    | ASTM D5185m | >10       | <b>0</b>     | ---      | ---      |
| Lead         | ppm    | ASTM D5185m | >10       | <b>0</b>     | ---      | ---      |
| Copper       | ppm    | ASTM D5185m | >75       | <b>&lt;1</b> | ---      | ---      |
| Tin          | ppm    | ASTM D5185m | >10       | <b>0</b>     | ---      | ---      |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>     | ---      | ---      |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b>  | ---      | ---      |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b>  | ---      | ---      |

### CONTAMINATION

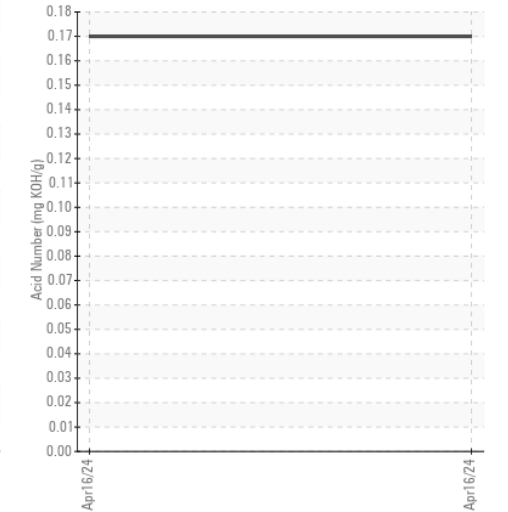
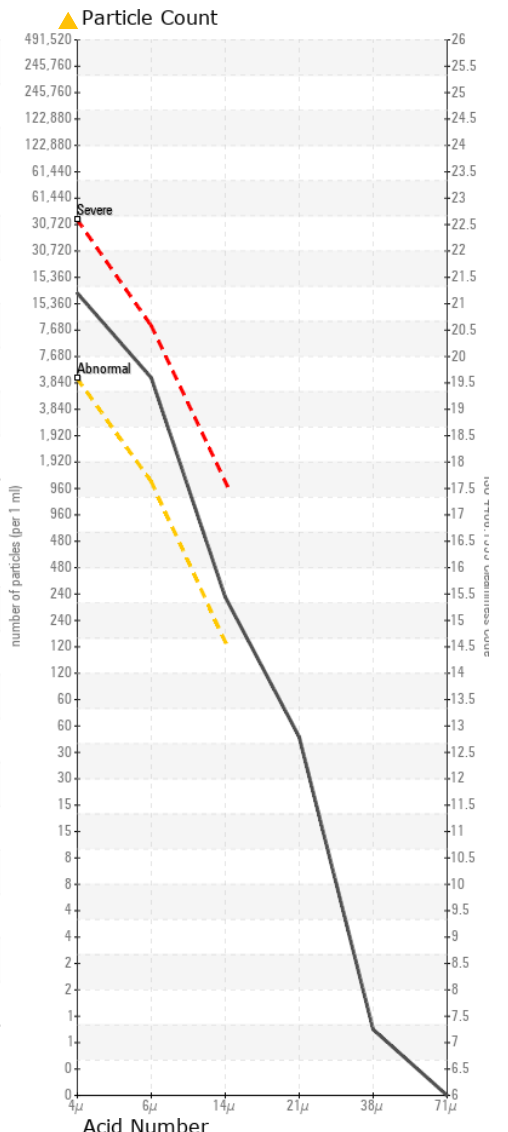
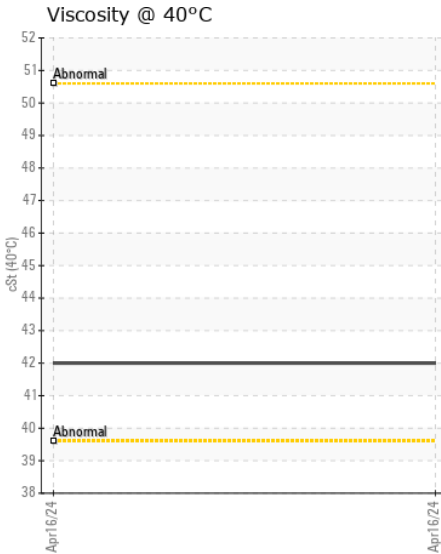
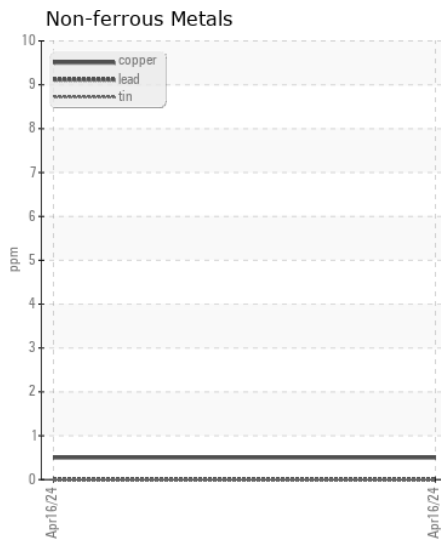
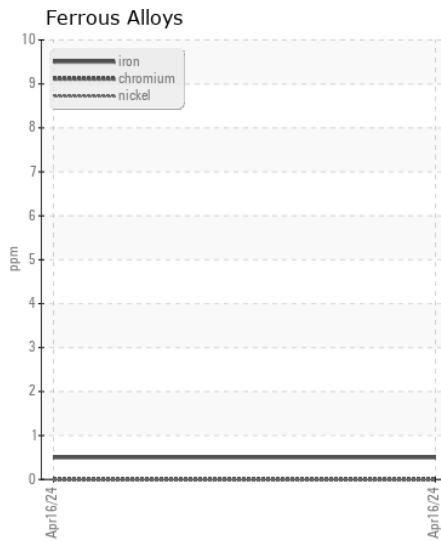
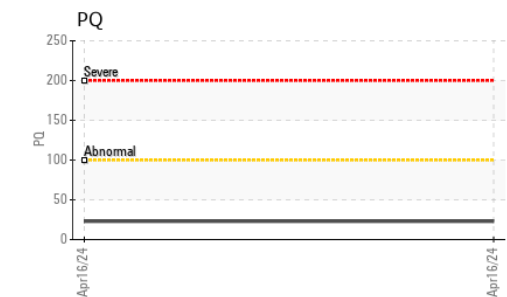
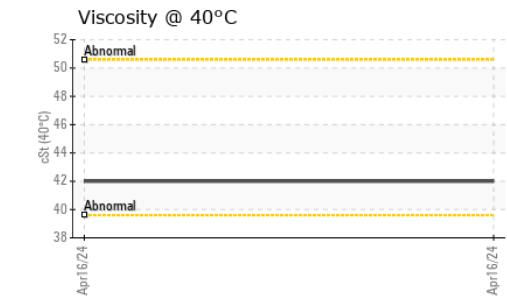
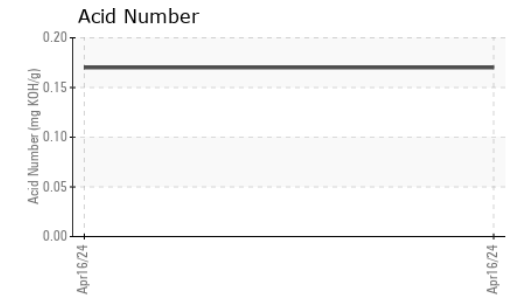
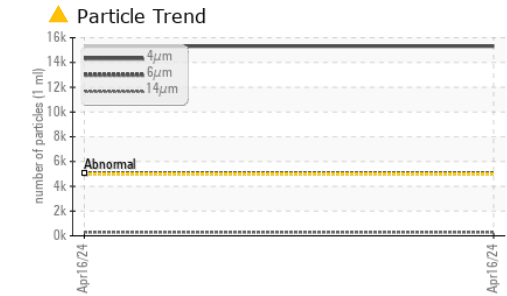
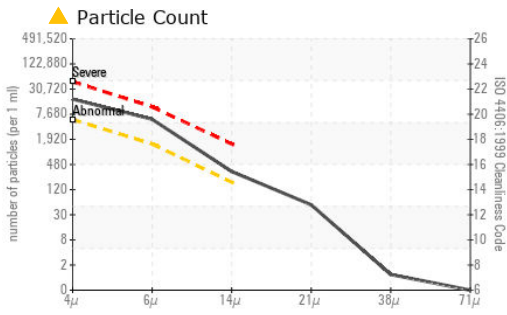
There is a high amount of particulates present in the oil.

|                  |        |              |           |                   |     |     |
|------------------|--------|--------------|-----------|-------------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>&lt;1</b>      | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>12</b>         | --- | --- |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>        | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>▲ 15312</b>    | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>▲ 5058</b>     | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>▲ 287</b>      | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>▲ 46</b>       | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >10       | <b>1</b>          | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >3        | <b>0</b>          | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | <b>▲ 21/20/15</b> | --- | --- |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>       | --- | --- |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>       | --- | --- |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>       | --- | --- |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>      | --- | --- |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>      | --- | --- |
| Emulsified Water | scalar | *Visual      | >0.1      | <b>NEG</b>        | --- | --- |

### FLUID CONDITION

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

|                  |          |             |  |              |     |     |
|------------------|----------|-------------|--|--------------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |  | <b>4</b>     | --- | --- |
| Boron            | ppm      | ASTM D5185m |  | <b>0</b>     | --- | --- |
| Barium           | ppm      | ASTM D5185m |  | <b>0</b>     | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |  | <b>&lt;1</b> | --- | --- |
| Manganese        | ppm      | ASTM D5185m |  | <b>0</b>     | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |  | <b>3</b>     | --- | --- |
| Calcium          | ppm      | ASTM D5185m |  | <b>97</b>    | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |  | <b>316</b>   | --- | --- |
| Zinc             | ppm      | ASTM D5185m |  | <b>141</b>   | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |  | <b>707</b>   | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |  | <b>0.17</b>  | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   |  | <b>42.0</b>  | --- | --- |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209186 **Received** : 17 Apr 2024  
**Lab Number** : 06151898 **Tested** : 18 Apr 2024  
**Unique Number** : 10981976 **Diagnosed** : 19 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529  
 Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com  
 T: (919)614-2260  
 F: (919)779-5432

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)