



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



Machine Id  
**JOHN DEERE 524K 1D524KZLGF677669**  
Component  
**Transmission (Manual)**  
Fluid  
**TDH FLUID SAE 75W80 (--- QTS)**

### RECOMMENDATION

The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0220255</b>   | JR0189371   | JR0135233   |
| Sample Date    |     | Client Info |           | <b>18 Jun 2024</b> | 08 Nov 2023 | 26 Jul 2022 |
| Machine Age    | hrs | Client Info |           | <b>5965</b>        | 5448        | 4545        |
| Oil Age        | hrs | Client Info |           | <b>4500</b>        | 4407        | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |             |      |      |
|--------------|--------|-------------|------|-------------|------|------|
| PQ           |        | ASTM D8184  | >95  | <b>22</b>   | 8    | 18   |
| Iron         | ppm    | ASTM D5185m | >200 | <b>25</b>   | <1   | 18   |
| Chromium     | ppm    | ASTM D5185m | >5   | <b>0</b>    | <1   | <1   |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>0</b>    | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>    | <1   | 0    |
| Silver       | ppm    | ASTM D5185m | >7   | <b>0</b>    | 0    | <1   |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>1</b>    | 3    | 1    |
| Lead         | ppm    | ASTM D5185m | >45  | <b>0</b>    | 0    | <1   |
| Copper       | ppm    | ASTM D5185m | >225 | <b>8</b>    | <1   | 6    |
| Tin          | ppm    | ASTM D5185m | >10  | <b>0</b>    | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>    | <1   | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b> | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b> | NONE | NONE |

### CONTAMINATION

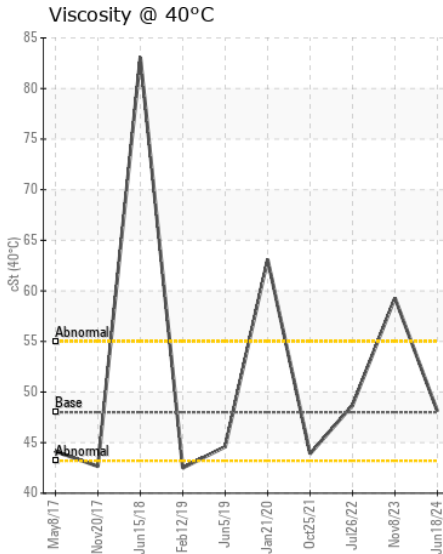
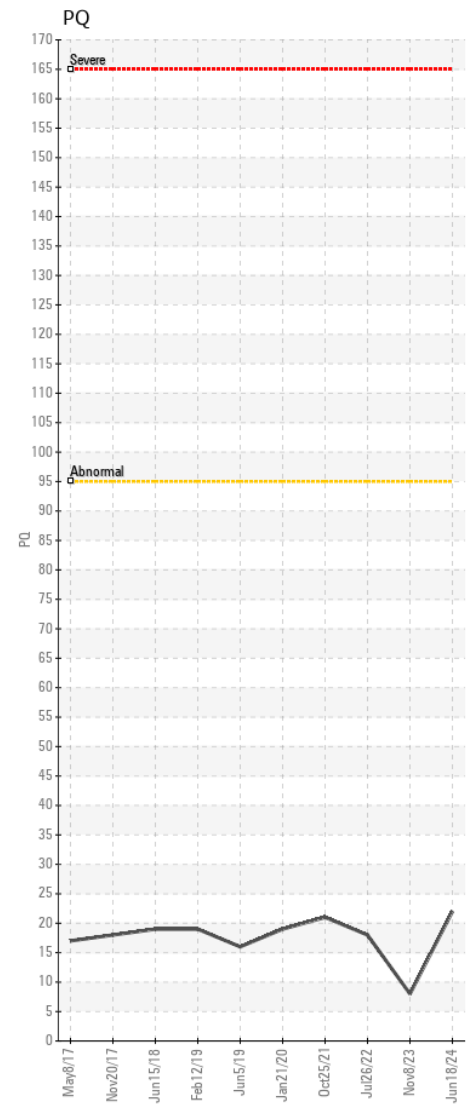
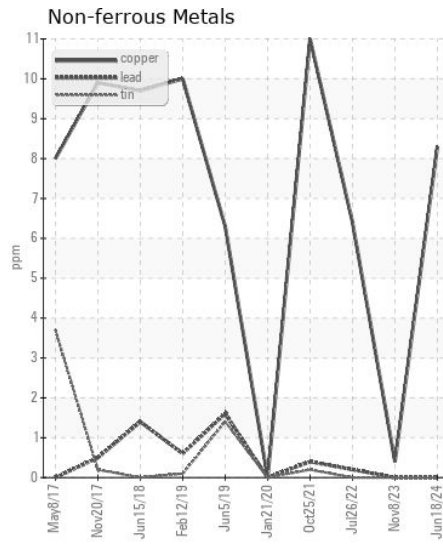
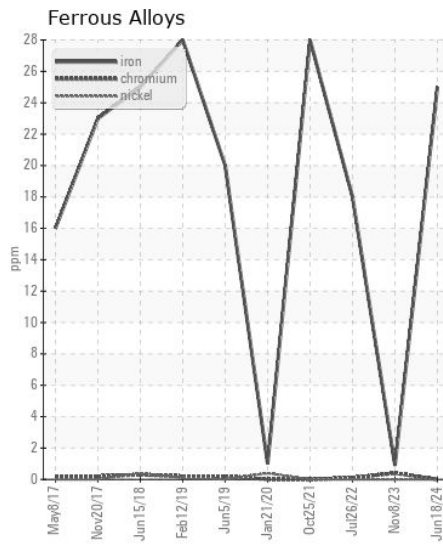
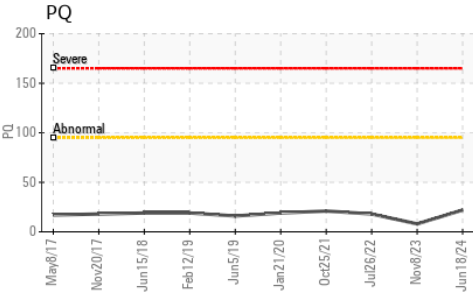
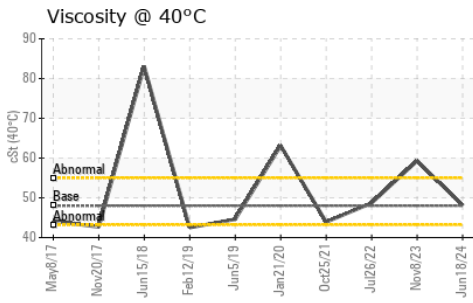
Moderate concentration of visible dirt/debris present in the fluid.

|                  |        |             |       |                |       |       |
|------------------|--------|-------------|-------|----------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >125  | <b>7</b>       | 4     | 6     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>       | 1     | 0     |
| Water            |        | WC Method   | >0.1  | <b>NEG</b>     | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>    | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>▲ MODER</b> | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>    | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b>   | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b>   | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.1  | <b>NEG</b>     | NEG   | NEG   |

### FLUID CONDITION

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

|             |     |             |      |              |      |      |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |      | <b>4</b>     | 0    | 3    |
| Boron       | ppm | ASTM D5185m | 10   | <b>0</b>     | <1   | 6    |
| Barium      | ppm | ASTM D5185m | 10   | <b>0</b>     | 6    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 10   | <b>0</b>     | <1   | <1   |
| Manganese   | ppm | ASTM D5185m |      | <b>&lt;1</b> | 0    | <1   |
| Magnesium   | ppm | ASTM D5185m | 100  | <b>88</b>    | 100  | 90   |
| Calcium     | ppm | ASTM D5185m | 3500 | <b>3235</b>  | 3368 | 3422 |
| Phosphorus  | ppm | ASTM D5185m | 1150 | <b>992</b>   | 1110 | 961  |
| Zinc        | ppm | ASTM D5185m | 1150 | <b>1135</b>  | 1258 | 1196 |
| Sulfur      | ppm | ASTM D5185m | 5000 | <b>3749</b>  | 4034 | 4317 |
| Visc @ 40°C | cSt | ASTM D445   | 48   | <b>48.1</b>  | 59.3 | 48.7 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220255 **Received** : 20 Jun 2024  
**Lab Number** : 06215964 **Tested** : 22 Jun 2024  
**Unique Number** : 11088828 **Diagnosed** : 23 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.com  
 T: (704)597-0211  
 F: (704)596-6198

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)