

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Machine Id JOHN DEERE 6130R Component Diesel Engine Fluid {not provided} (---- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| VVEAN |
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All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

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## FLUID CONDITION

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

| TestUOMMethodLimit/MCurrentHistory1History2Sample NumberClient InfoMC0741947Sample DateClient InfoI1910Machine AgehrsClient InfoI910Filter AgehrsClient InfoOFilter AgehrsClient InfoChangedFilter ChangedClient InfoChangedFilter ChangedClient InfoNORMALSample StatusClient InfoNORMALIronppmASTMD5185(m>5132NickelppmASTMD5185(m>51c1NickelppmASTMD5185(m>51c1SilverppmASTMD5185(m>30AluminumppmASTMD5185(m>26c1NadauppmASTMD5185(m>26c1SilconppmASTMD5185(m>2210SilconppmASTMD5185(m>2210SilconppmASTMD5185(m>20c1SilconppmASTMD5185(m>20c1SilconppmASTMD5185(m>201  |                |          |               |           |             |          |          |
|---|----------------|----------|---------------|-----------|-------------|----------|----------|
| Sample DateClient InfoInf <t< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></t<>  | Test           | UOM      | Method        | Limit/Abn | Current     | History1 | History2 |
| Machine Age<br>Dil Age<br>Dil Age<br>Filter AgeIrsClient InfoIP10Filter Age<br>Dil ChangedIrsClient InfoOGil ChangedClient InfoChangedFilter ChangedOClient InfoChangedFilter ChangedOClient InfoChangedSample StatusNORMALIronppmASTMD5185/m>5132IronppmASTMD5185/m>5132NickelppmASTMD5185/m>511SilverppmASTMD5185/m>320AluminumppmASTMD5185/m>26<1VanadiumppmASTMD5185/m>26<1VanadiumppmASTMD5185/m>2210SiliconppmASTMD5185/m>20<1SulfacionppmASTMD5185/m>20<1SulfacionppmASTMD5185/m>20<1SulfacionppmASTMD5185/m>20<1SulfacionppmASTMD5185/m>20<1SulfacionppmASTMD5185/m>20<1SulfacionppmASTMD5185/m>20  | Sample Number  |          | Client Info   |           | WC0741947   |          |          |
| Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoChangedFilter Changed0Client InfoChangedSample StatusNORMALIronppmASTM05185(m)>5132NickelppmASTM05185(m)>51<1NickelppmASTM05185(m)>51<1SilverppmASTM05185(m)>300AluminumppmASTM05185(m)>316LeadppmASTM05185(m)>262VanadiumppmASTM05185(m)>2210SiliconppmASTM05185(m)>20<1SiliconppmASTM05185(m)>20<1WatervC Method>5<1.0SulfationAbs/cmASTM 05185(m)>20<1SulfationAbs/cmASTM05185(m)>20<1SulfationAbs/cmASTM 05185(m)>20<1SulfationAbs/cmASTM 05185(m)>300SulfationAbs/cmASTM 05185(m)>3024.1<   | Sample Date    |          | Client Info   |           | 01 Mar 2023 |          |          |
| Filter Age<br>Oli ChangedhrsClient Info0Gil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusNORMALIronppmASTM D5185(m)>5132ChromiumppmASTM D5185(m)>51NickelppmASTM D5185(m)>5NickelppmASTM D5185(m)>5SilverppmASTM D5185(m)>30AluminumppmASTM D5185(m)>26CopperppmASTM D5185(m)>26VanadiumppmASTM D5185(m)>20SiliconppmASTM D5185(m)>20SuliconppmASTM D5185(m)>20FuelWC Method>5WaterQWC Method>5SulfationAbs/cmASTM D5185(m)>3024.1SulfationAbs/cmASTM D5185(m)>3024.1SulfationAbs/cmASTM D5185(m)>31QSulfationAbs/cmASTM D5185(m)>3024.1 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1910</th> <th></th> <th></th>  | Machine Age    | hrs      | Client Info   |           | 1910        |          |          |
| Oli ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusVINORMALIronppmASTM D5185(m)>5132ChromiumppmASTM D5185(m)>5<1NickelppmASTM D5185(m)>5<1TitaniumppmASTM D5185(m)>30SilverppmASTM D5185(m)>36LeadppmASTM D5185(m)>262CopperppmASTM D5185(m)>262VanadiumppmASTM D5185(m)>262VanadiumppmASTM D5185(m)>262SiliconppmASTM D5185(m)>20<1SuitonppmASTM D5185(m)>20<1WaterVC Method>0<10SuifacionppmASTM D5185(m)>3024.10SuifacionppmASTM D5185(m)>20<10SuifacionppmASTM D5185(m)>20<10SuifacionppmASTM D5185(m)>3024.10SuifacionAbs/tmASTM D5185(m)Si0.1  | Oil Age        | hrs      | Client Info   |           | 0           |          |          |
| Filter Changed<br>Sample StatusClient InfoChanged<br>NORIMALIronppmASTM D5185(m)>5132ChromiumppmASTM D5185(m)>5<1NickelppmASTM D5185(m)>5<1TitaniumppmASTM D5185(m)>30SilverppmASTM D5185(m)>30AluminumppmASTM D5185(m)>26<1CopperppmASTM D5185(m)>262VanadiumppmASTM D5185(m)>2210SiliconppmASTM D5185(m)>2210SuliconppmASTM D5185(m)>2210SuliconppmASTM D5185(m)>20<1WaterVC Method>0.21NEGGlycolWC Method>0.21NEGSulfationAbs/ImASTM D5185(m)>3024.1SulfationAbs/ImASTM D5185(m)>3024.1SulfationAbs/ImASTM D5185(m)>3024.1SulfationAbs/ImASTM D5185(m)>3024.1SulfationAbs/ImASTM D5185(m)  | Filter Age     | hrs      | Client Info   |           | 0           |          |          |
| Sample StatusNORIMALIronppmASTM D5185(m)>5132ChromiumppmASTM D5185(m)>11<1NickelppmASTM D5185(m)>5<1TitaniumppmASTM D5185(m)>5<1SilverppmASTM D5185(m)>30AluminumppmASTM D5185(m)>30LeadppmASTM D5185(m)>26<1CopperppmASTM D5185(m)>262TinppmASTM D5185(m)>210VanadiumppmASTM D5185(m)>210SiliconppmASTM D5185(m)>210FuelWC Method>210WaterVC Method>2NEGGlycolWC Method>2NEGNitrationAbs/:mASTM D5185(m)>3024.1Sodi%%ASTM D5185(m)>3024.1SodifationAbs/:mASTM D5185(m)>3024.1SodiumppmASTM D5185(m)>3024.1ManganeseppmASTM D5185(m)1   | Oil Changed    |          | Client Info   |           | Changed     |          |          |
| Iron         ppm         ASTM D5185(m)         >51         32            Chromium         ppm         ASTM D5185(m)         >11         <1            Nickel         ppm         ASTM D5185(m)         >5         <1            Titanium         ppm         ASTM D5185(m)         >5         <1            Silver         ppm         ASTM D5185(m)         >3         0            Aluminum         ppm         ASTM D5185(m)         >26         <1            Lead         ppm         ASTM D5185(m)         >26         2            Copper         ppm         ASTM D5185(m)         >26         2            Yanadium         ppm         ASTM D5185(m)         >26         2            Vanadium         ppm         ASTM D5185(m)         >22         10            Silicon         ppm         ASTM D5185(m)         >22         10            Silicon         ppm         ASTM D5185(m)         >22         10            Solicon         ppm         ASTM D5185(m)         >20  | Filter Changed |          | Client Info   |           | Changed     |          |          |
| Chromium         ppm         ASTM D5185(m)         >11         <1   | Sample Status  |          |               |           | NORMAL      |          |          |
| Chromium         ppm         ASTM D5185(m)         >11         <1   |                |          |               |           |             |          |          |
| Nickel         ppm         ASTM D5185(m)         >5         <1  | -              |          |               |           |             |          |          |
| Titanium         ppm         ASTM D5185(m)          <1  |                |          |               |           |             |          |          |
| Num         ASTM D5185(m)         >3         0            Aluminum         ppm         ASTM D5185(m)         >31         6            Lead         ppm         ASTM D5185(m)         >26         <1   |                | ppm      | ( )           | >5        |             |          |          |
| Aluminum         ppm         ASTM D5185(m)         >31         6            Lead         ppm         ASTM D5185(m)         >26         21            Copper         ppm         ASTM D5185(m)         >26         2            Tin         ppm         ASTM D5185(m)         >4         <1            Vanadium         ppm         ASTM D5185(m)         >4         <1            Vanadium         ppm         ASTM D5185(m)         >22         10            Silicon         ppm         ASTM D5185(m)         >20         <1            Potassium         ppm         ASTM D5185(m)         >20         <1            Fuel         WC Method         >0.21         NEG             Glycol         WC Method         >0.21         NEG             Soot %         %         ASTM D764*         >30         24.1             Sulfation         Abs/rm         ASTM D7164*         >30         24.1             Sodium         ppm         ASTM D5185(m)         >31 </th <th></th> <th>ppm</th> <th></th> <th>_</th> <th></th> <th></th> <th></th> |                | ppm      |               | _         |             |          |          |
| Lead         ppm         ASTM D5185(m)         >26         <1   |                |          | ( )           |           | -           |          |          |
| Copper         ppm         ASTM D5185(m)         >26         2             Tin         ppm         ASTM D5185(m)         >4         <1             Vanadium         ppm         ASTM D5185(m)         >2         10             Silicon         ppm         ASTM D5185(m)         >20         <1             Potassium         ppm         ASTM D5185(m)         >20         <1             Fuel         WC Method         >5         <1.0              Glycol         WC Method         >0.21         NEG              Soot %         %         ASTM D7844*         >3         0.1             Soot %         %         ASTM D7624*         >20         8.5             Sulfation         Abs/rm         ASTM D71415*         >30         24.1             Sodium         ppm         ASTM D5185(m)         >31         2             Boron         ppm  |                | ppm      | ( /           | >31       |             |          |          |
| Tin         ppm         ASTM D5185(m)         >4         <1   |                | ppm      |               |           |             |          |          |
| Vanadium         ppm         ASTM D5185(m)         <1   | Copper         | ppm      |               | >26       | 2           |          |          |
| Silicon         ppm         ASTM D5185(m)         >22         10             Potassium         ppm         ASTM D5185(m)         >20         <1             Fuel         WC Method         >5         <1.0             Water         WC Method         >0.21         NEG             Glycol         WC Method         >0.21         NEG             Soot %         %         ASTM D7844*         >3         0.1             Soot %         %         ASTM D7624*         >20         8.5             Sulfation         Abs/.m         ASTM D7624*         >20         8.5             Sulfation         Abs/.m         ASTM D76185(m)         >30         24.1             Sodium         ppm         ASTM D5185(m)         >31         2             Boron         ppm         ASTM D5185(m)         >31         2             Molybdenum         ppm         ASTM D5185(m)         0        <   |                | ppm      | ( )           | >4        | <1          |          |          |
| Potassium         ppm         ASTM D5185(m)         >20         <1  | Vanadium       | ppm      | ASTM D5185(m) |           | <1          |          |          |
| Potassium         ppm         ASTM D5185(m)         >20         <1  | Silicon        | nnm      | ASTM D5185(m) | >22       | 10          |          |          |
| Fuel         WC Method         >5         <1.0  |                |          | ( )           |           |             |          |          |
| Water         WC Method         >0.21         NEG            Glycol         WC Method         NEG             Soot %         %         ASTM D7844*         >3         0.1             Nitration         Abs/cm         ASTM D7624*         >20         8.5             Sulfation         Abs/cm         ASTM D7624*         >20         8.5             Sulfation         Abs/cm         ASTM D7624*         >20         8.5             Sulfation         Abs/cm         ASTM D7618*         >30         24.1             Sodium         ppm         ASTM D5185(m)         >31         2             Boron         ppm         ASTM D5185(m)         >31         2             Molybdenum         ppm         ASTM D5185(m)         >31         2             Manganese         ppm         ASTM D5185(m)         I         0             Magnesium         ppm         ASTM D5185(m)         I         1520   |                | ppm      |               |           |             |          |          |
| GlycolWC MethodNEGSoot %%ASTM D7844*>30.1NitrationAbs/cmASTM D7624*>208.5SulfationAbs/1mmASTM D7624*>3024.1Emulsified WaterscalarVisual*>0.21NEGSodiumppmASTM D5185(m)>312BoronppmASTM D5185(m)>312BariumppmASTM D5185(m)C0MolybdenumppmASTM D5185(m)C1178MagnesiumppmASTM D5185(m)C11520PhosphorusppmASTM D5185(m)I1003SulfurppmASTM D5185(m)1003SulfurppmASTM D5185(m)1003SulfurppmASTM D5185(m)1013SulfurppmASTM D5185(m)2505SulfurAbs/.1mmASTM D5185(m)250516.1   |                |          |               |           |             |          |          |
| Soot %         %         ASTM D7844*         >3         0.1             Nitration         Abs/cm         ASTM D7624*         >20         8.5             Sulfation         Abs/.1mm         ASTM D7624*         >30         24.1             Emulsified Water         scalar         Visual*         >0.21         NEG             Sodium         ppm         ASTM D5185(m)         >31         2             Boron         ppm         ASTM D5185(m)         >31         2             Barium         ppm         ASTM D5185(m)          0             Malganese         ppm         ASTM D5185(m)          230             Magnesium         ppm         ASTM D5185(m)          <11             Phosphorus         ppm         ASTM D5185(m)          <120             Inc         ppm         ASTM D5185(m)          904             Phosphorus         ppm  |                |          |               | 20.21     |             |          |          |
| NitrationAbs/cmASTM D7624*>208.5SulfationAbs/.1mmASTM D7415*>3024.1Emulsified WaterscalarVisual*>0.21NEGSodiumppmASTM D5185(m)>312BoronppmASTM D5185(m)>312BariumppmASTM D5185(m)<0MolybdenumppmASTM D5185(m)<0ManganeseppmASTM D5185(m)<<11MagnesiumppmASTM D5185(m)<1520PhosphorusppmASTM D5185(m)904ZincppmASTM D5185(m)1003SulfurppmASTM D5185(m)2505OxidationAbs./1mmASTM D7141*>2516.1  | 3              | %        |               | >3        | -           |          |          |
| SulfationAbs/.1mmASTM D7415*>3024.1Emulsified WaterscalarVisual*>0.21NEGNEGNEGSodiumppmASTM D5185(m)>312BoronppmASTM D5185(m)S178BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0MagneseppmASTM D5185(m)<11MagnesiumppmASTM D5185(m)1520PhosphorusppmASTM D5185(m)904ZincppmASTM D5185(m)1003SulfurppmASTM D5185(m)2505OxidationAbs/.1mmASTM D7141*>2516.1  |                |          |               |           |             |          |          |
| Emulsified Water         scalar         Visual*         >0.21         NEG             Sodium         ppm         ASTM D5185(m)         >31         2             Boron         ppm         ASTM D5185(m)         >31         2             Barium         ppm         ASTM D5185(m)          0             Molybdenum         ppm         ASTM D5185(m)          0             Manganese         ppm         ASTM D5185(m)           <11             Magnesium         ppm         ASTM D5185(m)           <14             Phosphorus         ppm         ASTM D5185(m)          <749             Phosphorus         ppm         ASTM D5185(m)          1520             Zinc         ppm         ASTM D5185(m)          1003             Sulfur         ppm         ASTM D5185(m)          2505  |                |          |               |           |             |          |          |
| Sodium         ppm         ASTM D5185(m)         >31         2            Boron         ppm         ASTM D5185(m)         178             Barium         ppm         ASTM D5185(m)         0             Barium         ppm         ASTM D5185(m)         0             Molybdenum         ppm         ASTM D5185(m)         0             Manganese         ppm         ASTM D5185(m)         <1             Magnesium         ppm         ASTM D5185(m)         <11             Calcium         ppm         ASTM D5185(m)         1520             Phosphorus         ppm         ASTM D5185(m)         904             Zinc         ppm         ASTM D5185(m)         1003             Sulfur         ppm         ASTM D5185(m)         2505             Oxidation         Abs/.1mm         ASTM D7414*         >25         16.1   |                |          |               |           |             |          |          |
| Boron         ppm         ASTM D5185(m)         178            Barium         ppm         ASTM D5185(m)         0            Molybdenum         ppm         ASTM D5185(m)         0            Malganese         ppm         ASTM D5185(m)         230            Magnesium         ppm         ASTM D5185(m)         <1            Magnesium         ppm         ASTM D5185(m)         <11            Calcium         ppm         ASTM D5185(m)         1520            Phosphorus         ppm         ASTM D5185(m)         904            Zinc         ppm         ASTM D5185(m)         1003            Sulfur         ppm         ASTM D5185(m)         2505            Oxidation         Abs/.1mm         ASTM D7414* >25         16.1  |                |          |               |           |             |          |          |
| Barium         ppm         ASTM D5185(m)         0            Molybdenum         ppm         ASTM D5185(m)         230             Manganese         ppm         ASTM D5185(m)         <1   | Sodium         | ppm      | ASTM D5185(m) | >31       | 2           |          |          |
| Molybdenum         ppm         ASTM D5185(m)         230            Manganese         ppm         ASTM D5185(m)         <1            Magnesium         ppm         ASTM D5185(m)         <1            Magnesium         ppm         ASTM D5185(m)         749            Calcium         ppm         ASTM D5185(m)         1520            Phosphorus         ppm         ASTM D5185(m)         904            Zinc         ppm         ASTM D5185(m)         1003            Sulfur         ppm         ASTM D5185(m)         2505            Oxidation         Abs/.1mm         ASTM D7414*<>25         16.1  | Boron          | ppm      | ASTM D5185(m) |           | 178         |          |          |
| Manganese         ppm         ASTM D5185(m)         <1  | Barium         | ppm      | ASTM D5185(m) |           | 0           |          |          |
| Magnesium         ppm         ASTM D5185(m)         749            Calcium         ppm         ASTM D5185(m)         1520            Phosphorus         ppm         ASTM D5185(m)         904            Zinc         ppm         ASTM D5185(m)         1003            Sulfur         ppm         ASTM D5185(m)         2505            Oxidation         Abs/.1mm         ASTM D7414*         >25         16.1  | Molybdenum     | ppm      | ASTM D5185(m) |           | 230         |          |          |
| Calcium         ppm         ASTM D5185(m)         1520            Phosphorus         ppm         ASTM D5185(m)         904             Zinc         ppm         ASTM D5185(m)         1003             Sulfur         ppm         ASTM D5185(m)         2505             Oxidation         Abs/.1mm         ASTM D7414*         >25         16.1  | Manganese      | ppm      | ASTM D5185(m) |           | <1          |          |          |
| Phosphorus         ppm         ASTM D5185(m)         904             Zinc         ppm         ASTM D5185(m)         1003             Sulfur         ppm         ASTM D5185(m)         2505             Oxidation         Abs/.1mm         ASTM D7414*         >25         16.1  | Magnesium      | ppm      | ASTM D5185(m) |           | 749         |          |          |
| Zinc         ppm         ASTM D5185(m)         1003             Sulfur         ppm         ASTM D5185(m)         2505             Oxidation         Abs/.1mm         ASTM D7414*         >25         16.1   | Calcium        | ppm      | ASTM D5185(m) |           | 1520        |          |          |
| Sulfur         ppm         ASTM D5185(m)         2505             Oxidation         Abs/.1mm         ASTM D7414*         >25         16.1   | Phosphorus     | ppm      | ASTM D5185(m) |           | 904         |          |          |
| Oxidation         Abs/.1mm         ASTM D7414*         >25         16.1   | Zinc           | ppm      | ASTM D5185(m) |           | 1003        |          |          |
|   | Sulfur         | ppm      | ASTM D5185(m) |           | 2505        |          |          |
| Visc @ 100°C cSt ASTM D7279(m) 13.6   | Oxidation      | Abs/.1mm | ASTM D7414*   | >25       | 16.1        |          |          |
|   | Visc @ 100°C   | cSt      | ASTM D7279(m) |           | 13.6        |          |          |

Contact/Location: Jeff Barlow - EBAYOR





