



Machine Id LIEBHERR L580 069442-1762

Splitter Box Fluid GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

WEAR

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

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

| TestUOMMethodLim/AbsCurrentHistory1History2Sample NumberClient Info03 Jan 202403 Jan 2024Machine AgehrsClient Info003 Jan 20240Machine AgehrsClient Info000Filter AgehrsClient Info000Filter ChangedClient InfoN/A0Filter ChangedClient InfoN/A0Sample StatusClient InfoN/A0IronppmASTMD5185(m)>10071NickelppmASTMD5185(m)>53NickelppmASTMD5185(m)>53SilverppmASTMD5185(m)>300AuminumppmASTMD5185(m)>300VanadiumppmASTMD5185(m)>100Yallow MetalscalarVisual*NONENONESiliconppmASTMD5185(m)>100Yallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONE  |   |  |   |  |   |                  |                  |
|--|---|--|---|--|---|------------------|------------------|
| Sample DateClient Info03 Jan 2024Machine AgehrsClient Info3567Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusViralNORMALIronppmASTMD5165(m)>5<1NickelppmASTMD5165(m)0NickelppmASTMD5165(m)201AluminumppmASTMD5165(m)200AluminumppmASTMD5165(m)300VanadiumppmASTMD5165(m)20<1Yallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarV   | Test  | UOM  | Method  | Limit/Abn  | Current   | History1         | History2         |
| Machine Age         hrs         Client Info         3567             Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185(m)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >0              Silver         ppm         ASTM D5185(m)         >20         1             Auminum         ppm         ASTM D5185(m)         >30         0             Auminum         ppm         ASTM D5185(m)         >30         <1             Vanadium         ppm <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>LH0247600</th> <th></th> <th></th>                                 | Sample Number   |  | Client Info   |  | LH0247600   |                  |                  |
| Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185(m)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Aluminum         ppm         ASTM D5185(m)         >20         1             Aluminum         ppm         ASTM D5185(m)         >30         0             Aluminum         ppm         ASTM D5185(m)         >10         0             Aluminum         ppm         ASTM D5185(m)         >30         <11   | Sample Date   |  | Client Info   |  | 03 Jan 2024   |                  |                  |
| Filter Age         hrs         Client Info         N/A            Gil changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185(m)         >50         <1            Nickel         ppm         ASTM D5185(m)         >5         3            Nickel         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         20         1            Aluminum         ppm         ASTM D5185(m)         >20         <1            Aluminum         ppm         ASTM D5185(m)         >20         <1            Yellow Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         <1            Yellow Metal  | Machine Age   | hrs  | Client Info   |  | 3567  |                  |                  |
| Oil Changed         Client Info         N/A            Filter Changed         Client Info         N/A            Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >100         71            Nickel         ppm         ASTM D5185(m)         >5         3            Nickel         ppm         ASTM D5185(m)         >5         3            Silver         ppm         ASTM D5185(m)         >5         3            Aluminum         ppm         ASTM D5185(m)         >0             Aluminum         ppm         ASTM D5185(m)         >00             Lead         ppm         ASTM D5185(m)         >00             Vanadium         ppm         ASTM D5185(m)         >00             Yellow Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE             Yellow Metal         scalar         Visual*         N  | Oil Age   | hrs  | Client Info   |  | 0   |                  |                  |
| Filter Changed         Client Info         N/A            Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >100         71            Chromium         ppm         ASTM D5185(m)         >5             Nickel         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Silver         ppm         ASTM D5185(m)         >0             Aluminum         ppm         ASTM D5185(m)         >0             Lead         ppm         ASTM D5185(m)         >00  | Filter Age  | hrs  | Client Info   |  | 0   |                  |                  |
| Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >0             Aluminum         ppm         ASTM D5185(m)         >20         1             Aluminum         ppm         ASTM D5185(m)         >20         1             Lead         ppm         ASTM D5185(m)         >20         <1             Vanadium         ppm         ASTM D5185(m)         >0         0             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Silicon         ppm         ASTM D5185(m)         >20         <1  | Oil Changed   |  | Client Info   |  | N/A   |                  |                  |
| Iron         ppm         ASTM D5185(m)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Titanium         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         >20         1             Aluminum         ppm         ASTM D5185(m)         >30         0             Lead         ppm         ASTM D5185(m)         >30         0             Vanadium         ppm         ASTM D5185(m)         >30         0             Vanadium         ppm         ASTM D5185(m)         >10         0   | Filter Changed  |  | Client Info   |  | N/A   |                  |                  |
| Chromium         ppm         ASTM D5185(m)         >5         <1   | Sample Status   |  |   |  | NORMAL  |                  |                  |
| Chromium         ppm         ASTM D5185(m)         >5         <1   |   |  |   |  |   |                  |                  |
| Nickel         ppm         ASTM D5185(m)         >5         3            Titanium         ppm         ASTM D5185(m)         0            Silver         ppm         ASTM D5185(m)         0            Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >20         <1            Copper         ppm         ASTM D5185(m)         >20         <1            Tin         ppm         ASTM D5185(m)         >20         <1            Vanadium         ppm         ASTM D5185(m)         >20         <1            Vanadium         ppm         ASTM D5185(m)         >20         <1            Yellow Metal         scalar         Visual*         NONE             Yellow Metal         scalar         Visual*         NONE             Silicon         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG   |   |  |   |  |   |                  |                  |
| Titanium         ppm         ASTM D5185(m)         O            Silver         ppm         ASTM D5185(m)         O            Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >20         <1            Copper         ppm         ASTM D5185(m)         >20         <1            Tin         ppm         ASTM D5185(m)         >20         <1            Vanadium         ppm         ASTM D5185(m)         >10         0            Vandum         ppm         ASTM D5185(m)         >20         <1            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG             Silit         scalar         Visual*         NONE         NONE   |   | ppm  | × 7   |  |   |                  |                  |
| Silver         ppm         ASTM D5185(m)         0            Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >30         0            Copper         ppm         ASTM D5185(m)         >20         <1            Tin         ppm         ASTM D5185(m)         >10         0            Vanadium         ppm         ASTM D5185(m)         >10         0            White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Yellow Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Solit         scalar         Visual*         NONE         NONE             Sand/Dirt  |   |  | . ,   | >5   | -   |                  |                  |
| Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >30         0             Copper         ppm         ASTM D5185(m)         >20         <1             Tin         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         0         0             Vanadium         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         >20         <1             Vellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >20         <1             Silit         scalar         Visual*         NONE         NONE             Debris         scalar         Visual*  |   |  | . ,   |  | -   |                  |                  |
| Lead         pm         ASTM D5185(m)         >30         0             Copper         ppm         ASTM D5185(m)         >20         <1             Tin         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         >10         0             White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Water         WC Method         >.0         NONE              Silt         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NOR         NORML             Appearance         scalar         Visual*         NOR         NORML             Boron         ppm  |   |  |   |  | -   |                  |                  |
| Copper         ppm         ASTM D5185(m)         >20         <1  |   | ppm  | ( /   |  | -   |                  |                  |
| Tin         ppm         ASTM D5185(m)         >10         0            Vanadium         ppm         ASTM D5185(m)         0             White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         <1            Potassium         ppm         ASTM D5185(m)         >20         <1            Water         WC Method         >0.1         NEG             Silt         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Gdor         scalar         Visual*         NORML         NORML             Sodium         ppm         ASTM D5185(m)         >170         <1 <t< th=""><th></th><th>ppm</th><th></th><th></th><th>-</th><th></th><th></th></t<> |   | ppm  |   |  | -   |                  |                  |
| Vanadium         ppm         ASTM D5185(m)         0             White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Potassium         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG              Silt         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Sodium         ppm         ASTM D5185(m)<>170         <1             Boron         ppm         ASTM D5185(m) </th <th></th> <th>ppm</th> <th>( /</th> <th>&gt;20</th> <th>&lt;1</th> <th></th> <th></th>              |   | ppm  | ( /   | >20  | <1  |                  |                  |
| White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Potassium         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG             Silt         scalar         Visual*         NONE         NONE            Debris         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NORM         NORE             Appearance         scalar         Visual*         NORM         NORML             Odor         scalar         Visual*         NORM         NORML             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         200         0   |   | ppm  | ( )   | >10  | -   |                  |                  |
| Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         <1             Potassium         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG             Silit         scalar         Visual*         NONE         NONE            Silit         scalar         Visual*         NONE         NONE            Debris         scalar         Visual*         NONE         NONE            Sand/Dirt         scalar         Visual*         NORE         NORE            Appearance         scalar         Visual*         NORM         NORML            Odor         scalar         Visual*         NOR         NORML             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         200         0             Molyb  |   |  |   |  | -   |                  |                  |
| Silicon         ppm         ASTM D5185(m)         >30         <1   |   | scalar   |   |  |   |                  |                  |
| Potassium         ppm         ASTM D5185(m)         >20         <1   | Yellow Metal  | scalar   | Visual*   | NONE   | NONE  |                  |                  |
| Potassium         ppm         ASTM D5185(m)         >20         <1   |   |  |   |  |   |                  |                  |
| WaterWC Method>0.1NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLCodorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)2000MalganeseppmASTM D5185(m)121MagnesiumppmASTM D5185(m)1210PhosphorusppmASTM D5185(m)150102ZincppmASTM D5185(m)12574ZincppmASTM D5185(m)12574  | Silicon   | maa  | ASTM D5185(m)   | >30  | <1  |                  |                  |
| DebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)2000BariumppmASTM D5185(m)2000MolybdenumppmASTM D5185(m)121MagnesiumppmASTM D5185(m)122MagnesiumppmASTM D5185(m)15010PhosphorusppmASTM D5185(m)12574ZincppmASTM D5185(m)2250024511  |   |  |   |  |   |                  |                  |
| Sand/Dirt         scalar         Visual*         NONE         NORE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >0.1         NEG             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         200         0             Barium         ppm         ASTM D5185(m)         200         0             Malganese         ppm         ASTM D5185(m)         12         1             Magnesium         ppm         ASTM D5185(m)         12         2             Phosphorus         ppm         ASTM D5185(m)         150         10             Zinc   | Potassium   |  | ASTM D5185(m)   | >20  | <1  |                  |                  |
| AppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)2000BariumppmASTM D5185(m)2000MolybdenumppmASTM D5185(m)121ManganeseppmASTM D5185(m)122MagnesiumppmASTM D5185(m)15010PhosphorusppmASTM D5185(m)16501925ZincppmASTM D5185(m)12574SulfurppmASTM D5185(m)2250024511   | Potassium<br>Water  | ppm  | ASTM D5185(m)<br>WC Method  | >20<br>>0.1  | <1<br>NEG   | <br><br>         | <br><br>         |
| Odor         scalar         Visual*         NORML         NORML            Emulsified Water         scalar         Visual*         >0.1         NEG             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         400         5             Barium         ppm         ASTM D5185(m)         200         0             Molybdenum         ppm         ASTM D5185(m)         12         1             Manganese         ppm         ASTM D5185(m)         12         2             Magnesium         ppm         ASTM D5185(m)         12         2             Phosphorus         ppm         ASTM D5185(m)         150         100             Zinc         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74        Sulfur         ppm         ASTM D5185(m)<   | Potassium<br>Water<br>Silt  | ppm<br>scalar  | ASTM D5185(m)<br>WC Method<br>Visual*   | >20<br>>0.1<br>NONE  | <1<br>NEG<br>NONE   | <br><br>         | <br><br>         |
| OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)4005BariumppmASTM D5185(m)2000MolybdenumppmASTM D5185(m)121ManganeseppmASTM D5185(m)121MagnesiumppmASTM D5185(m)150100PhosphorusppmASTM D5185(m)16501925ZincppmASTM D5185(m)12574SulfurppmASTM D5185(m)2250024511  | Potassium<br>Water<br>Silt<br>Debris  | ppm<br>scalar<br>scalar  | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*  | >20<br>>0.1<br>NONE<br>NONE  | <1<br>NEG<br>NONE<br>NONE   | <br><br>         | <br><br><br>     |
| Sodium         ppm         ASTM D5185(m)         >170         <1   | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt   | ppm<br>scalar<br>scalar<br>scalar  | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*   | >20<br>>0.1<br>NONE<br>NONE<br>NONE  | <1<br>NEG<br>NONE<br>NONE<br>NONE   |                  |                  |
| Boron         ppm         ASTM D5185(m)         400         5            Barium         ppm         ASTM D5185(m)         200         0            Molybdenum         ppm         ASTM D5185(m)         12         1            Manganese         ppm         ASTM D5185(m)         12         2            Magnesium         ppm         ASTM D5185(m)         12         2            Calcium         ppm         ASTM D5185(m)         12         2            Phosphorus         ppm         ASTM D5185(m)         150         10            Zinc         ppm         ASTM D5185(m)         125         74            Sulfur         ppm         ASTM D5185(m)         22500         24511   | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance   | ppm<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*  | >20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML   | <1<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML  |                  | <br><br>         |
| Boron         ppm         ASTM D5185(m)         400         5            Barium         ppm         ASTM D5185(m)         200         0            Molybdenum         ppm         ASTM D5185(m)         12         1            Manganese         ppm         ASTM D5185(m)         12         2            Magnesium         ppm         ASTM D5185(m)         12         2            Calcium         ppm         ASTM D5185(m)         12         10            Phosphorus         ppm         ASTM D5185(m)         1650         1925            Zinc         ppm         ASTM D5185(m)         125         74            Sulfur         ppm         ASTM D5185(m)         22500         24511   | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*   | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>NORML  | <1<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML<br>NORML   | <br>             | <br><br>         |
| Barium         ppm         ASTM D5185(m)         200         0            Molybdenum         ppm         ASTM D5185(m)         12         1             Manganese         ppm         ASTM D5185(m)         12         1             Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511   | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*   | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>NORML  | <1<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML<br>NORML   | <br>             | <br><br>         |
| Molybdenum         ppm         ASTM D5185(m)         12         1            Manganese         ppm         ASTM D5185(m)         1             Magnesium         ppm         ASTM D5185(m)         12         2             Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511  | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)   | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.1  | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG  | <br><br><br>     | <br><br><br><br> |
| Manganese         ppm         ASTM D5185(m)         <1   | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm                                 | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)   | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.1  | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG  | <br><br><br><br> |                  |
| Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511  | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm                                 | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)  | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>>0.1<br>>170<br>400  | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5   |                  |                  |
| Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511   | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm                          | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)  | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.1<br>>170<br>400<br>200                                | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5<br>0  |                  |                  |
| Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511  | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm                   | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)   | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.1<br>>170<br>400<br>200                                | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5<br>0<br>1   |                  |                  |
| Zinc         ppm         ASTM D5185(m)         125         74            Sulfur         ppm         ASTM D5185(m)         22500         24511  | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm                   | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)   | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>>0.1<br>>170<br>400<br>200<br>12                                   | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5<br>0<br>1<br>5  |                  |                  |
| Sulfur         ppm         ASTM D5185(m)         22500         24511   | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium                                  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm               | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)  | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>>0.1<br>>170<br>400<br>200<br>12                                   | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5<br>0<br>1<br>5<br>0<br>1<br>2                         |                  |                  |
|  | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Barium<br>Malybdenum<br>Manganese<br>Magnesium                        | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                   | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.1<br>>170<br>400<br>200<br>12                          | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5<br>0<br>1<br><1<br>2<br>10                            |                  |                  |
| Visc @ 40°C cSt ASTM D7279(m) 143 178  | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium                       | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                             | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>>0.1<br>>170<br>400<br>200<br>12<br>12<br>12<br>150<br>1650        | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5<br>0<br>1<br><1<br>2<br>10<br>1<br>925                |                  |                  |
|  | Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m) | >20<br>>0.1<br>NONE<br>NONE<br>NORML<br>>0.1<br>>170<br>400<br>200<br>12<br>12<br>12<br>150<br>1650<br>125 | <1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>5<br>0<br>1<br>5<br>0<br>1<br>2<br>10<br>1<br>925<br>74 |                  |                  |

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Submitted By: ?





