

Machine Id JOHN DEERE 325G 1T0325GKCKJ366267 Component Left Final Drive Fluid JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

| V | N | F | Δ | R |
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Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

CONTAMINATION

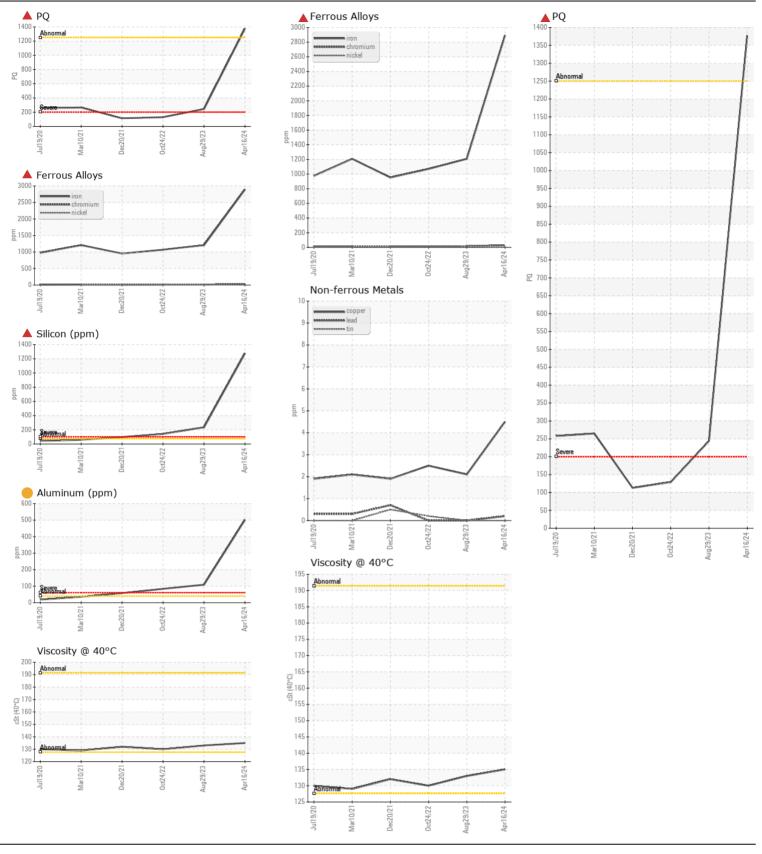
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

| TestUOMMethodLimit/MoCurrentHistory1History1History1Sample NumberClient InfoIS AP028000JA0185157JR0149411Sample DateClient InfoIS Apr202429 Aug 202324 Oct 2022Machine AgehrsClient InfoIS Ap1920229 Aug 202324 Oct 2022Machine AgehrsClient InfoIT756730Filter AgehrsClient InfoIT75KangedNot ChangedFilter ChangedClient InfoIN/ANAN/ASample StatusClient InfoIN/ASEVEREABNORMALPQASTM D8185ST50A 1377244129IronppmASTM D5185ST50A 28931008A 107ChromiumppmASTM D5185ST60A 3174SilverppmASTM D5185S10A 3174SilverppmASTM D5185S10A 1000CopperppmASTM D5185S10A 11<11ValdomppmASTM D5185S10A 1222TinppmASTM D5185S10A 1222ValdomppmASTM D5185S10A 1222ValdomppmASTM D5185S10C1<13ValdomppmASTM D5185S10C1<12SilverppmASTM D5185S20I1<2 | | | | | | | |
|--|---|--|--|---|---|--|---|
| Sample DateClient InfoI6 Apr 202429 Aug 202324 Oct 2022Machine AgehrsClient Info319926972024Oil AgehrsClient Info000Filter AgehrsClient InfoChangedN/AN/ASample StatusClient InfoN/AN/AN/ASample StatusSitent InfoA STM D5185A 1377244129PQASTM D5185>750A 2891100A 1070ChromiumppmASTM D5185>10A 23109NickelppmASTM D5185>10A 23109RiturppmASTM D5185>10A 107000AluminumppmASTM D5185>10A 1000AluminumppmASTM D5185>10A 1000AluminumppmASTM D5185>10A 174SilverppmASTM D5185>10000CopperppmASTM D5185>10A 221VanadiumppmASTM D5185>1000<1VanadiumppmASTM D5185>10NONENONENONESiliconppmASTM D5185>201212624WaterwC MethodNONENONENONENONENONESiliconppmASTM D5185>201212624Waterscala | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Machine Age hrs Client Info 3199 2697 2024 Oil Age hrs Client Info 1175 673 0 Filter Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A PQ ASTM D5185m \$750 A 2893 1208 A 1070 Chromium ppm ASTM D5185m \$9 A 28 14 A 13 Nickel ppm ASTM D5185m \$9 A 28 10 9 Titanium ppm ASTM D5185m \$9 A 28 10 9 Goper ppm ASTM D5185m \$9 A 28 10 9 Altuminum ppm ASTM D5185m \$40 A 12 0 0 0 0 0 1 <1 <1 1 \$1 \$1 \$1 \$1 \$1 | Sample Number | | Client Info | | JR0208003 | JR0185157 | JR0149411 |
| Oil AgehrsClient Info11756730Filter AgehrsClient Info0000Oil ChangedClient InfoN/AN/AN/AN/ASample StatusClient InfoN/AN/AN/APQASTM D8184>1250 A 1377 244129IronppmASTM D5185m>750 A 2893 11208 A 1070ChromiumppmASTM D5185m>90 A 28 114 A 13NickelppmASTM D5185m>10 A 23 1009TitaniumppmASTM D5185m>10 A 31 74SilverppmASTM D5185m>10 502 10984LeadppmASTM D5185m>10000AluminumppmASTM D5185m>101<1<1VanadiumppmASTM D5185m>1000<1VanadiumppmASTM D5185m>11<1<1<1VanadiumppmASTM D5185m>75 A 1276 A 235A 142PotassiumppmASTM D5 | Sample Date | | Client Info | | 16 Apr 2024 | 29 Aug 2023 | 24 Oct 2022 |
| Filter Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A Sample Status SEVERE ABNORMAL ABNORMAL ABNORMAL PQ ASTM D8184 >1250 A 1377 244 129 Iron ppm ASTM D5185m >750 A 2893 110.08 A 13 Nickel ppm ASTM D5185m >10 A 23 10 9 Titanium ppm ASTM D5185m >10 A 31 7 4 Silver ppm ASTM D5185m >40 502 10.9 84 Lead ppm ASTM D5185m >10 0 0 <1 Vanaduium ppm ASTM D5185m >10 1 <1 <1 Vanaduium ppm ASTM D5185m >10 0 <12 1 Vel | Machine Age | hrs | Client Info | | 3199 | 2697 | 2024 |
| Oil ChangedClient InfoChangedN/AN/AN/ASample StatusClient InfoN/AN/AABNORMALABNORMALABNORMALPQASTM D8184<>1250▲ 13777244129IronppmASTM D5185m>750▲ 28931208▲ 1070ChromiumppmASTM D5185m>790▲ 281413NickelppmASTM D5185m>10▲ 23109TitaniumppmASTM D5185m>4050200AluminumppmASTM D5185m>4050200AluminumppmASTM D5185m>40422TinppmASTM D5185m>40422TinppmASTM D5185m>40001VanadiumppmASTM D5185m>10001VanadiumppmASTM D5185m>1001ValuevisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>5A 1276A 235A 142PotassiumppmASTM D5185m>5NONENONENONESiliconppmASTM D5185m>201212624WatervisualNONENONENONENONENONESand/Dirtscalar*Visual | Oil Age | hrs | Client Info | | 1175 | 673 | 0 |
| Filter Changed Client Info N/A N/A N/A N/A Filter Changed Status Client Info N/A ABNORMAL ABNORMAL ABNORMAL ABNORMAL PQ ASTM D8184 >1250 A 1377 244 129 Iron ppm ASTM D5185m >90 A 2893 1208 A 1070 Chromium ppm ASTM D5185m >90 A 28 14 A 13 Nickel ppm ASTM D5185m >90 A 23 100 9 Titanium ppm ASTM D5185m >10 A 23 100 0 Auminum ppm ASTM D5185m >40 0 0 0 Auminum ppm ASTM D5185m >40 4 2 2 Tin ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m >10 0 <142 2 Yellow Metal scalar<'Visual NONE NONE NONE NONE | Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Sample StatusSEVEREABNORMALABNORMALPQASTM D8184>12501377244129IronppmASTM D5185m>75028931208A 1070ChromiumppmASTM D5185m>9281413NickelppmASTM D5185m>923109TitaniumppmASTM D5185m>10A 3174SilverppmASTM D5185m>1050210984LeadppmASTM D5185m>4050210984LeadppmASTM D5185m>40422TinppmASTM D5185m>40422VanadiumppmASTM D5185m>40422VanadiumppmASTM D5185m>40422Yellow Metalscalar'VisualNONENONENONENONEYellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>201212624WaterWC Method>0.075NEGNORENONESilitscalar'VisualNONENONENONENONEDebrisscalar'VisualNORNORENONENONEAppearancescalar'VisualNORNORENORENOREAppearancescalar'VisualNORNORENORENORE <t< th=""><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>Changed</th><th>Not Changd</th><th>Changed</th></t<> | Oil Changed | | Client Info | | Changed | Not Changd | Changed |
| PQ ASTM D8184 >1250 A 1377 244 129 Iron ppm ASTM D5185m >750 A 2893 1208 1070 Chromium ppm ASTM D5185m >90 A 28 14 A 13 Nickel ppm ASTM D5185m >10 A 23 10 9 Titanium ppm ASTM D5185m >10 A 23 100 0 Aluminum ppm ASTM D5185m >40 502 109 84 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 -1 Vanadium ppm ASTM D5185m >10 0 0 -1 Vanadium ppm ASTM D5185m >10 0 0 -1 Vanadium ppm ASTM D5185m >10 NONE NONE NONE Yellow Metal scalar "Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 <th>Filter Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>N/A</th> | Filter Changed | | Client Info | | N/A | N/A | N/A |
| Iron ppm ASTM D5185m >750 A 2893 1208 1070 Chromium ppm ASTM D5185m >90 A 28 14 13 Nickel ppm ASTM D5185m >10 A 23 10 9 Titanium ppm ASTM D5185m A 31 7 4 Silver ppm ASTM D5185m O 0 0 Aluminum ppm ASTM D5185m >40 502 109 84 Lead ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m >10 0 0 <1 <1 Vanadium ppm ASTM D5185m >10 0 0 <11 <1 <1 Vanadium ppm ASTM D5185m >10 0 0 <121 <126 235 142 Vanadium ppm ASTM D5185m >20 121 26 24 Water | Sample Status | | | | SEVERE | ABNORMAL | ABNORMAL |
| Iron ppm ASTM D5185m >750 A 2893 1208 1070 Chromium ppm ASTM D5185m >90 A 28 14 13 Nickel ppm ASTM D5185m >10 A 23 10 9 Titanium ppm ASTM D5185m A 31 7 4 Silver ppm ASTM D5185m O 0 0 Aluminum ppm ASTM D5185m >40 502 109 84 Lead ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m >10 0 0 <1 <1 Vanadium ppm ASTM D5185m >10 0 0 <11 <1 <1 Vanadium ppm ASTM D5185m >10 0 0 <121 <126 235 142 Vanadium ppm ASTM D5185m >20 121 26 24 Water | | | | | | | |
| Chromium ppm ASTM D5185m >9 A 28 14 A 13 Nickel ppm ASTM D5185m >10 A 23 10 9 Titanium ppm ASTM D5185m >10 A 23 10 9 Silver ppm ASTM D5185m >10 0 0 0 Aluminum ppm ASTM D5185m >40 502 109 84 Lead ppm ASTM D5185m >40 4 2 2 Tin ppm ASTM D5185m >40 4 2 2 Vanadium ppm ASTM D5185m >10 0 0 1 <1 | | | | | - | | |
| Nickel ppm ASTM D5185m >10 ▲ 23 10 9 Titanium ppm ASTM D5185m ▲ 31 7 4 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >40 ● 502 ● 109 ● 84 Lead ppm ASTM D5185m >40 4 2 2 Tin ppm ASTM D5185m >40 4 2 2 Tin ppm ASTM D5185m >40 4 2 2 Tin ppm ASTM D5185m >40 0 0 <1 Vanadium ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m >75 ▲ 1276 ▲ 235 ▲ 142 Vanadium ppm ASTM D5185m >20 121 26 24 Water WC Method >0.075 NEG NONE NONE NONE <th>-</th> <th>ppm</th> <th></th> <th></th> <th></th> <th></th> <th></th> | - | ppm | | | | | |
| Titanium ppm ASTM D5185m ▲ 31 7 4 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >40 502 109 84 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 <1 0 0 <1 Vanadium ppm ASTM D5185m >10 0 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 1 | | ppm | | | | | |
| Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m<>40 502 109 84 Lead ppm ASTM D5185m<>15 <1 0 0 Copper ppm ASTM D5185m<>10 4 2 2 Tin ppm ASTM D5185m<>10 0 0 <1 Vanadium ppm ASTM D5185m<>10 0 0 <1 Vanadium ppm ASTM D5185m<>10 0 0 <1 Vanadium ppm ASTM D5185m<>75 A 1276 A 235 A 142 Potassium ppm ASTM D5185m<>75 A 1276 A 235 A 142 Potassium ppm ASTM D5185m<>20 121 26 24 Water WC Method >0.075 NEG NORE NORE Silt scalar *Visual NONE NONE NONE NORE Sand/Dirt scalar *Visual NORM NO | | ppm | | >10 | | - | |
| Aluminum ppm ASTM D5185m >40 502 109 84 Lead ppm ASTM D5185m >15 <1 | | ppm | | | - | | |
| Lead ppm ASTM D5185m >15 <1 | | ppm | ASTM D5185m | | 0 | 0 | 0 |
| CopperppmASTM D5185m>40422TinppmASTM D5185m>1000<1 | | ppm | | >40 | 5 02 | 109 | 84 |
| Tin ppm ASTM D5185m >10 0 0 <1 | Lead | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| VanadiumppmASTM D5185m1<1 | Copper | ppm | ASTM D5185m | >40 | 4 | 2 | 2 |
| White Metalscalar*VisualNONENONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>751276235142PotassiumppmASTM D5185m>201212624WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLGolumppmASTM D5185m>512146BoronppmASTM D5185m>51122231BariumppmASTM D5185m773222MolybdenumppmASTM D5185m261211MaganeseppmASTM D5185m261211MagnesiumppmASTM D5185m331779CalciumppmASTM D5185m366364434PhosphorusppmASTM D5185m555765 | Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>751276235142PotassiumppmASTM D5185m>201212624WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m551122231BariumppmASTM D5185m77322MolybdenumppmASTM D5185m261211MaganeseppmASTM D5185m331779CalciumppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434ZincppmASTM D5185m575765 | Vanadium | ppm | ASTM D5185m | | 1 | <1 | <1 |
| SiliconppmASTM D5185m<>75▲ 1276▲ 235▲ 142PotassiumppmASTM D5185m>201212624WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m<>512146BoronppmASTM D5185m15122231BariumppmASTM D5185m261211ManganeseppmASTM D5185m261211MagnesiumppmASTM D5185m33179CalciumppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434ZincppmASTM D5185m575765 | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| PotassiumppmASTM D5185m>201212624WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m51122231BariumppmASTM D5185m151222231ManganeseppmASTM D5185m5333179CalciumppmASTM D5185m3317918PhosphorusppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434 | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| PotassiumppmASTM D5185m>201212624WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m51122231BariumppmASTM D5185m151222231ManganeseppmASTM D5185m5333179CalciumppmASTM D5185m3317918PhosphorusppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434 | | | | | | | |
| WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m>51122231BariumppmASTM D5185m15122231ManganeseppmASTM D5185m26121111MagnesiumppmASTM D5185m331799CalciumppmASTM D5185m1072118PhosphorusppmASTM D5185m575765 | Silicon | nnm | ASTM D5185m | >75 | 1 276 | A 235 | ▲ 1/2 |
| Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m15122231BariumppmASTM D5185m15122231ManganeseppmASTM D5185m261211MagnesiumppmASTM D5185m33179CalciumppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434ZincppmASTM D5185m755765 | | | | | - | | |
| Debrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m51122231BariumppmASTM D5185m15122231ManganeseppmASTM D5185m26121111MagnesiumppmASTM D5185m3317799CalciumppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434ZincppmASTM D5185m755765 | Potassium | | ASTM D5185m | >20 | 121 | 26 | 24 |
| Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m>51322231BariumppmASTM D5185m151222MolybdenumppmASTM D5185m7732ManganeseppmASTM D5185m261211MagnesiumppmASTM D5185m331779CalciumppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434ZincppmASTM D5185m755765 | Potassium Water | ppm | ASTM D5185m WC Method | >20 >0.075 | 121 NEG | 26 NEG | 24 NEG |
| Appearancescalar*VisualNORML< | Potassium Water Silt | ppm scalar | ASTM D5185m WC Method *Visual | >20 >0.075 NONE | 121 NEG NONE | 26 NEG NONE | 24 NEG NONE |
| Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>512146BoronppmASTM D5185m>51322231BariumppmASTM D5185m151222MolybdenumppmASTM D5185m732ManganeseppmASTM D5185m261211MagnesiumppmASTM D5185m3331779CalciumppmASTM D5185m1072118PhosphorusppmASTM D5185m366364434ZincppmASTM D5185m755765 | Potassium Water Silt Debris | ppm scalar scalar | ASTM D5185m WC Method *Visual *Visual | >20 >0.075 NONE NONE | 121 NEG NONE NONE | 26 NEG NONE NONE | 24 NEG NONE NONE |
| Emulsified Water scalar *Visual >0.075 NEG NEG NEG Sodium ppm ASTM D5185m >51 21 4 6 Boron ppm ASTM D5185m >51 32 22 31 Barium ppm ASTM D5185m 15 12 22 Molybdenum ppm ASTM D5185m 7 3 2 Manganese ppm ASTM D5185m 26 12 11 Magnesium ppm ASTM D5185m 33 17 9 Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 57 65 | Potassium Water Silt Debris Sand/Dirt | ppm scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual | >20 >0.075 NONE NONE NONE | 121 NEG NONE NONE NONE | 26 NEG NONE NONE | 24 NEG NONE NONE |
| Sodium ppm ASTM D5185m >51 21 4 6 Boron ppm ASTM D5185m 32 22 31 Barium ppm ASTM D5185m 15 12 22 Molybdenum ppm ASTM D5185m 7 3 2 Manganese ppm ASTM D5185m 26 12 11 Magnesium ppm ASTM D5185m 33 17 9 Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 57 65 | Potassium Water Silt Debris Sand/Dirt Appearance | ppm scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual | >20 >0.075 NONE NONE NONE NORML | 121 NEG NONE NONE NONE NORML | 26 NEG NONE NONE NONE NORML | 24 NEG NONE NONE NONE NORML |
| Boron ppm ASTM D5185m 32 22 31 Barium ppm ASTM D5185m 15 12 22 Molybdenum ppm ASTM D5185m 7 3 2 Manganese ppm ASTM D5185m 26 12 11 Magnesium ppm ASTM D5185m 33 17 9 Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor | ppm scalar scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual | >20 >0.075 NONE NONE NORE NORML | 121 NEG NONE NONE NONE NORML | 26 NEG NONE NONE NONE NORML NORML | 24 NEG NONE NONE NONE NORML NORML |
| Barium ppm ASTM D5185m 15 12 22 Molybdenum ppm ASTM D5185m 7 3 2 Manganese ppm ASTM D5185m 26 12 11 Magnesium ppm ASTM D5185m 33 17 9 Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor | ppm scalar scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual | >20 >0.075 NONE NONE NORE NORML | 121 NEG NONE NONE NONE NORML | 26 NEG NONE NONE NONE NORML NORML | 24 NEG NONE NONE NONE NORML NORML |
| Molybdenum ppm ASTM D5185m 7 3 2 Manganese ppm ASTM D5185m 26 12 11 Magnesium ppm ASTM D5185m 33 17 9 Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water | ppm scalar scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML NEG | 26 NEG NONE NONE NORML NORML NEG | 24 NEG NONE NONE NORML NORML NEG |
| Manganese ppm ASTM D5185m 26 12 11 Magnesium ppm ASTM D5185m 33 17 9 Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 57 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium | ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML NEG 21 | 26 NEG NONE NONE NORML NORML NEG 4 | 24 NEG NONE NONE NORML NORML NEG 6 |
| Magnesium ppm ASTM D5185m 33 17 9 Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 57 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron | ppm scalar scalar scalar scalar scalar scalar ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML NEG 21 32 | 26 NEG NONE NONE NORML NORML NEG 4 22 | 24 NEG NONE NONE NORML NORML NEG 6 31 |
| Calcium ppm ASTM D5185m 107 21 18 Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 57 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium | ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML NEG 21 32 15 | 26 NEG NONE NONE NORML NORML NEG 4 22 12 | 24 NEG NONE NONE NORML NORML NEG 6 31 22 |
| Phosphorus ppm ASTM D5185m 366 364 434 Zinc ppm ASTM D5185m 75 57 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum | ppm scalar scalar scalar scalar scalar ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML NEG 21 32 21 32 15 7 | 26 NEG NONE NONE NORML NORML NEG 4 22 12 3 | 24 NEG NONE NONE NORML NORML NEG 6 31 22 2 |
| Zinc ppm ASTM D5185m 75 57 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese | ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML NEG 21 32 15 7 26 | 26 NEG NONE NONE NORML NORML NEG 4 22 12 3 12 | 24 NEG NONE NONE NORML NORML NEG 6 31 22 2 2 |
| Zinc ppm ASTM D5185m 75 57 65 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML NEG 21 32 15 7 26 33 | 26 NEG NONE NONE NORML NORML NEG 4 22 12 3 12 3 12 | 24 NEG NONE NONE NORML NORML NEG 6 31 22 2 2 11 9 |
| | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML 21 32 21 32 15 7 26 33 107 | 26 NEG NONE NONE NORML NORML NEG 4 22 12 3 12 3 12 12 17 21 | 24 NEG NONE NONE NORML NORML NEG 6 31 22 2 11 2 2 11 9 18 |
| | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML 21 32 21 32 15 7 26 33 107 366 | 26 NEG NONE NONE NORML NORML NEG 4 22 12 3 12 12 12 12 12 3 12 12 3 12 12 3 3 | 24 NEG NONE NONE NORML NORML NEG 6 31 22 2 11 9 18 434 |
| Visc @ 40°C cSt ASTM D445 135 133 130 | Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.075 NONE NONE NONE NORML NORML >0.075 | 121 NEG NONE NONE NORML NORML 21 32 21 32 15 7 26 33 107 366 | 26 NEG NONE NONE NORML NORML NEG 4 22 12 3 12 12 12 12 12 3 12 12 3 12 12 3 3 | 24 NEG NONE NONE NORML NORML NEG 6 31 22 2 11 9 18 434 |

Contact/Location: MARK ROSS - TENCAN



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **TENNOCA CONSTRUCTION** Laboratory Sample No. : JR0208003 Received PO BOX 2379 : 23 Apr 2024 : 06158525 Lab Number CANDLER, NC Tested : 29 Apr 2024 Unique Number : 10993948 : 29 Apr 2024 - Jonathan Hester US 28715 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: MARK ROSS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mark@tennoca.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (828)665-8331 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: