

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### KEMP QUARRIES / RIVER VALLEY OZARK Machine Id WL091

#### Component Front Left Final Drive

### Fluid

# MOBIL MOBILTRANS HD 50 (--- GAL)

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### WEAR

Gear wear is indicated.

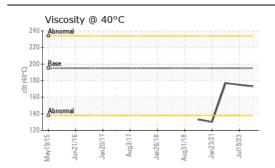
### CONTAMINATION

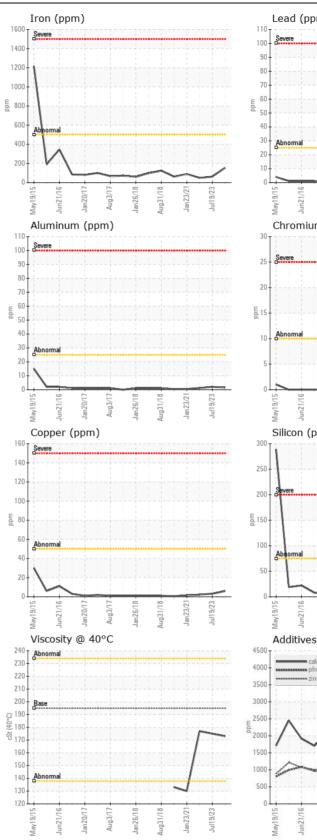
There is no indication of any contamination in the oil.

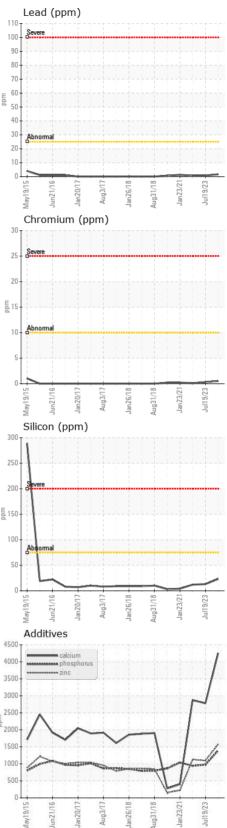
## FLUID CONDITION

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

| TestUOMMethodLimit/MCurrentHistory1History2Sample NumberClient InfoI6 Apr 202419 Jul 202313 Jan 2023Machine AgehrsClient InfoI6 Apr 202419 Jul 202313 Jan 2023Machine AgehrsClient InfoI847461525224686Oil AgehrsClient InfoI84746152520Filter AgehrsClient InfoN/AN/ANot ChangdFilter ChangedClient InfoN/AN/ANot ChangdFilter ChangedClient InfoN/AN/ANORMALForonppmASTM D5185>50015462249ChromiumppmASTM D5185>10<1<1<1NickelppmASTM D5185>10<1<1<1NickelppmASTM D5185>222<1<1LeadoppmASTM D5185>252<1<1CopperppmASTM D5185>10<1<1<1VanadiumppmASTM D5185>222<1<1YathosStath D5185>222<1<1<1YathosASTM D5185>23G3322<1VanadiumppmASTM D5185>222<1<1YathosStath D5185>24G<1<1<1YathosStath D5185>202<1<1<1 <trr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></trr<>  |                  |              |             |             |             |             |             |      |
|--|------------------|--------------|-------------|-------------|-------------|-------------|-------------|------|
| Sample DateClient Info16 Apr 202419 Jul 202313 Jan 203Machine AgehrsClient Info255761525224686Oil AgehrsClient Info000Filter AgehrsClient InfoN/AN/ANot ChangedFilter ChangedClient InfoN/AN/ANot ChangedFilter ChangedClient InfoN/AN/ANoreSample StatusClient InfoN/ANANoreIronppASTM D5185>5001546249ChromiumppASTM D5185>10<1<1<1NickeippASTM D5185>10<1<1<1SilverppASTM D5185>5066321LeadppASTM D5185>50663221LeadppASTM D5185>50663221VanadiumppASTM D5185>50663221Yellow Metalscalar'VisualNONENONENONENONENONESiliconpmASTM D5185>5023231312Yellow Metalscalar'VisualNONENONENONENONESiliconpmASTM D5185>50231312PotassiumpmASTM D5185>202<10SiliconpmASTM D5185>20 </th <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>  | Test             | UOM          | Method      | Limit/Abn   | Current     | History1    | History2    |      |
| Machine AgehrsClient Info255761525224686Oil AgehrsClient Info184746152520Filter AgehrsClient InfoN/AN/ANot ChangedFilter ChangedClient InfoN/AN/ANoneSample StatusClient InfoN/AN/ANORMALIronppmASTM D5185m>50015462249ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<1<1<1SilverppmASTM D5185m>25221LeadppmASTM D5185m>252<1<1CopperppmASTM D5185m>252<1<1QuantaminumppmASTM D5185m>252<1<1YandoiumppmASTM D5185m>252<1<1VanadiumppmASTM D5185m>252<1<1Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<10WatervisualNONENONENONENONENONESiliconppmASTM D5185m>202<10WatervisualNONENONENONENONENONESilicon <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>PCA0086937</th><th>PCA0084557</th><th>PCA0086185</th></t<>  | Sample Number    |              | Client Info |             | PCA0086937  | PCA0084557  | PCA0086185  |      |
| Oil AgehrsClient InfoI84746152520Filter AgehrsClient Info000Oil ChangedClient InfoN/AN/ANot ChangdFilter Changed1Client InfoN/AN/ANoneSample StatusClient InfoN/AN/ANORMALNORMALIronppmASTM D5185m550015462249ChromiumppmASTM D5185m10<1<1<1NickelppmASTM D5185m510<1<1<1SilverppmASTM D5185m>25221LeadppmASTM D5185m>252<1<1CopperppmASTM D5185m500632TinppmASTM D5185m500632Yellow Metalscalar*VisualNONELIGHTNONENONEVellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>75231312PotassiumppmASTM D5185m>75231312PotassiumppmASTM D5185m>75231312PotassiumppmASTM D5185m>75231312PotassiumppmASTM D5185m>75231312  | Sample Date      |              | Client Info |             | 16 Apr 2024 | 19 Jul 2023 | 13 Jan 2023 |      |
| Filter Age<br>Oli ChangedClient Info000Oil ChangedClient InfoN/AN/ANot ChangedFilter ChangedClient InfoN/AN/ANoreSample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>5001546249ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>252211SilverppmASTM D5185m>252<1<1LeadppmASTM D5185m>50632TinppmASTM D5185m>50632TinppmASTM D5185m>50632Yellow Metalscalar*VisualNONELIGHTNONENONEVellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<10SiliconppmASTM D5185m>202<10WaterVisualNONENONENONENONENONESodiumppmASTM D5185m>202<10Appearancescalar*VisualNONENONENONENONEAppearance<  | Machine Age      | hrs          | Client Info |             | 25576       | 15252       | 24686       |      |
| Oil Changed<br>Filter ChangedClient InfoN/AN/ANot ChangedFilter ChangedClient InfoN/AN/ANoneSample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>5001546249ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<100TitaniumppmASTM D5185m>22<1<1<1SilverppmASTM D5185m>252<1<1<1CopperppmASTM D5185m>50632<1<1<0VanadiumppmASTM D5185m>50632<1<1<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0<0 <t< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>184746</th><th>15252</th><th>0</th></t<>  | Oil Age          | hrs          | Client Info |             | 184746      | 15252       | 0           |      |
| Filter ChangeClient InfoNAN/AN/ANoneSample StatusClient InfoN/AN/ANORMALNORMALIronppmASTM D5185m>5001546249ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<100TitaniumppmASTM D5185m>10<1<1<1SilverppmASTM D5185m>252<1<1LeadppmASTM D5185m>252<1<1CopperppmASTM D5185m>252<1<1QuantiumppmASTM D5185m>252<1<1Yellow Metalscalar*VisualNONENONENONENONEVisualNONENONENONENONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<1<1SuliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<1<1SoliconppmASTM D5185m>202<1<1Astm D5185m>202<1<0NONESoliconppmASTM D5185m>0NORENORENORE </th <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>   | Filter Age       | hrs          | Client Info |             | 0           | 0           | 0           |      |
| Sample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>5001546249ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<100TitaniumppmASTM D5185m>10<1<1<1SilverppmASTM D5185m>25221LeadppmASTM D5185m>252<1<1CopperppmASTM D5185m>25632TinppmASTM D5185m>50632YanadiumppmASTM D5185m>10<1<10VanadiumppmASTM D5185m>10<1<10YanadiumppmASTM D5185m>50632YanadiumppmASTM D5185m>50632Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<10WaterWC Method>0.2NEGNONENONENONEDebrisscalar*VisualNONENONENONENONENOREAppearancescalar*VisualNORNORENORENORENOREAppearancescalar*VisualNORNORE  | Oil Changed      |              | Client Info |             | N/A         | N/A         | Not Changd  |      |
| Iron     ppm     ASTM D5185m     >500     154     62     49       Chromium     ppm     ASTM D5185m     >10     <1     <1     <1       Nickel     ppm     ASTM D5185m     >10     <1     0     0       Titanium     ppm     ASTM D5185m      <1     <1     <1     <1       Silver     ppm     ASTM D5185m     >25     2     2     1     <1       Lead     ppm     ASTM D5185m     >25     2     <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 <th>Filter Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>None</th>                  | Filter Changed   |              | Client Info |             | N/A         | N/A         | None        |      |
| Image     ASTM D5185m     >10     <1   | Sample Status    |              |             |             | NORMAL      | NORMAL      | NORMAL      |      |
| Image     ASTM D5185m     >10     <1   |                  |              |             | . 500       | 154         | 60          | 40          |      |
| Nickel     ppm     ASTM D5185m     >10     <1  |                  |              |             |             | -           |             |             |      |
| Titanium     ppm     ASTM D5185m     <1  |                  |              |             |             |             |             |             |      |
| Silver     ppm     ASTM D5185m     >25     2     2     1       Lead     ppm     ASTM D5185m     >25     2     <1     <1       Copper     ppm     ASTM D5185m     >25     2     <1     <1       Copper     ppm     ASTM D5185m     >50     6     3     2       Tin     ppm     ASTM D5185m     >10     <1     <1     0       Vanadium     ppm     ASTM D5185m     >10     <1     <1     0       Vanadium     ppm     ASTM D5185m     >10     <1     <1     0       Vanadium     ppm     ASTM D5185m     >75     23     13     12       Vanadium     ppm     ASTM D5185m     >75     23     13     12       Potassium     ppm     ASTM D5185m     >20     2     <1     0       Water     wC Method     >0.2     NEG     NEG     NORE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE   |                  |              |             | >10         |             | -           | -           |      |
| Aluminum     ppm     ASTM D5185m     >25     2     2     1       Lead     ppm     ASTM D5185m     >25     2     <1     <1       Copper     ppm     ASTM D5185m     >50     6     3     2       Tin     ppm     ASTM D5185m     >10     <1     <1     0       Vanadium     ppm     ASTM D5185m     >75     23     13     12       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NORE       Silicon     ppm     ASTM D5185m     >20     2     <1     0       Water     wC Method     >0.2     NEG     NEG     NORE     NORE       Debris     scalar     *Visual     NONE     NONE </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> |                  |              |             |             |             |             |             |      |
| Lead     ppm     ASTM D5185m     >25     2     <1  |                  |              |             | 05          | -           | -           |             |      |
| Copper     ppm     ASTM DS185m     >50     6     3     2       Tin     ppm     ASTM DS185m     >10     <1     <1     0       Vanadium     ppm     ASTM D5185m     >10     <1     <1     0       White Metal     scalar     *Visual     NONE     LIGHT     NONE     LIGHT       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >75     23     13     12       Potassium     ppm     ASTM D5185m     >20     2     <1     0       Water     WC Method     >0.2     NEG     NEG     NEG       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NORML     NORML       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML       Codor     scalar     *Visual     NORM  |                  |              |             |             |             |             |             |      |
| TinppmASTM D5185m>10<1   | <1               |              |             |             |             | _           |             |      |
| VanadiumppmASTM D5185m0000White Metalscalar*VisualNONELIGHTNONELIGHTYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<10WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0002BoronppmASTM D5185m0000MolybdenumppmASTM D5185m633ManganeseppmASTM D5185m1<1< <td>&lt;1</td> <1MagnesiumppmASTM D5185m1392974942ZincppmASTM D5185m157310961126SulfurppmASTM D5185m109037867<  | <1               |              |             |             |             | -           | -           |      |
| White Metalscalar*VisualNONELIGHTNONELIGHTYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<10WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0022BoronppmASTM D5185m0002BoronppmASTM D5185m0000MolybdenumppmASTM D5185m1<1< <td>&lt;1</td> <1MagnesiumppmASTM D5185m127812874PhosphorusppmASTM D5185m1392974942ZincppmASTM D5185m157310961126SulfurppmASTM D5185m150310961126SulfurppmASTM D5185m150310961126  | <1               |              |             |             | >10         |             |             | -    |
| Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<10WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0022BoronppmASTM D5185m0000MolybdenumppmASTM D5185m6333ManganeseppmASTM D5185m1<1< <td>&lt;1</td> <1MagnesiumppmASTM D5185m139227812874PhosphorusppmASTM D5185m157310961126SulfurppmASTM D5185m157310961126SulfurppmASTM D5185m1090378678623   | <1               |              |             |             | NONE        | -           |             |      |
| SiliconppmASTM D5185m>75231312PotassiumppmASTM D5185m>202<1  |                  |              |             | -           |             | -           |             |      |
| PotassiumppmASTM D5185m>202<1  | <1<              | Yellow Metal | scalar      | *Visual     | NONE        | NONE        | NONE        | NONE |
| WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0022BoronppmASTM D5185m0000MolybdenumppmASTM D5185m6333ManganeseppmASTM D5185m1<1< <td>&lt;1</td> <1MagnesiumppmASTM D5185m9655522CalciumppmASTM D5185m1392974942PhosphorusppmASTM D5185m157310961126SulfurppmASTM D5185m1090378678623   | <1               | Silicon      | ppm         | ASTM D5185m | >75         | 23          | 13          | 12   |
| Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m002BoronppmASTM D5185m000MolybdenumppmASTM D5185m633ManganeseppmASTM D5185m1<1<1MagnesiumppmASTM D5185m965552CalciumppmASTM D5185m1392974942ZincppmASTM D5185m157310961126SulfurppmASTM D5185m1090378678623   | Potassium        | ppm          | ASTM D5185m | >20         | 2           | <1          | 0           |      |
| Debrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m002BoronppmASTM D5185m0000MolybdenumppmASTM D5185m633ManganeseppmASTM D5185m1<1<1MagnesiumppmASTM D5185m965552CalciumppmASTM D5185m1392974942PhosphorusppmASTM D5185m157310961126SulfurppmASTM D5185m1090378678623   | Water            |              | WC Method   | >0.2        | NEG         | NEG         | NEG         |      |
| Sand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m002BoronppmASTM D5185m000MolybdenumppmASTM D5185m000MalganeseppmASTM D5185m1<1<1MagnesiumppmASTM D5185m965552CalciumppmASTM D5185m425327812874PhosphorusppmASTM D5185m1392974942ZincppmASTM D5185m157310961126SulfurppmASTM D5185m1090378678623  | Silt             | scalar       | *Visual     | NONE        | NONE        | NONE        | NONE        |      |
| Appearancescalar*VisualNORML<   | Debris           | scalar       | *Visual     | NONE        | NONE        | NONE        | LIGHT       |      |
| Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m002BoronppmASTM D5185m734844BariumppmASTM D5185m000MolybdenumppmASTM D5185m633ManganeseppmASTM D5185m1<1<1MagnesiumppmASTM D5185m965552CalciumppmASTM D5185m1392974942PhosphorusppmASTM D5185m157310961126SulfurppmASTM D5185m1090378678623  | Sand/Dirt        | scalar       | *Visual     | NONE        | NONE        | NONE        | NONE        |      |
| Emulsified Water     scalar     *Visual     >0.2     NEG     NEG     NEG       Sodium     ppm     ASTM D5185m     0     0     2       Boron     ppm     ASTM D5185m     73     48     44       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     6     3     3       Manganese     ppm     ASTM D5185m     1     <1     <1       Magnesium     ppm     ASTM D5185m     1     <1     <1       Phosphorus     ppm     ASTM D5185m     4253     2781     2874       Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623  | Appearance       | scalar       | *Visual     | NORML       | NORML       | NORML       | NORML       |      |
| Sodium     ppm     ASTM D5185m     0     0     2       Boron     ppm     ASTM D5185m     73     48     44       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     6     3     3       Manganese     ppm     ASTM D5185m     1     <1     <1       Magnesium     ppm     ASTM D5185m     96     55     52       Calcium     ppm     ASTM D5185m     4253     2781     2874       Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623  | Odor             | scalar       | *Visual     | NORML       | NORML       | NORML       | NORML       |      |
| Boron     ppm     ASTM D5185m     73     48     44       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     6     3     3       Manganese     ppm     ASTM D5185m     1     <1     <1       Magnesium     ppm     ASTM D5185m     96     55     52       Calcium     ppm     ASTM D5185m     4253     2781     2874       Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623  | Emulsified Water | scalar       | *Visual     | >0.2        | NEG         | NEG         | NEG         |      |
| Boron     ppm     ASTM D5185m     73     48     44       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     6     3     3       Manganese     ppm     ASTM D5185m     1     <1     <1       Magnesium     ppm     ASTM D5185m     96     55     52       Calcium     ppm     ASTM D5185m     4253     2781     2874       Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623  | Sodium           | ppm          | ASTM D5185m |             | 0           | 0           | 2           |      |
| Molybdenum     ppm     ASTM D5185m     6     3     3       Manganese     ppm     ASTM D5185m     1     <1     <1       Magnesium     ppm     ASTM D5185m     96     55     52       Calcium     ppm     ASTM D5185m     4253     2781     2874       Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623  | Boron            |              | ASTM D5185m |             | 73          | 48          | 44          |      |
| Molybdenum     ppm     ASTM D5185m     6     3     3       Manganese     ppm     ASTM D5185m     1     <1     <1       Magnesium     ppm     ASTM D5185m     96     55     52       Calcium     ppm     ASTM D5185m     4253     2781     2874       Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623  | Barium           |              | ASTM D5185m |             | 0           | 0           | 0           |      |
| Manganese     ppm     ASTM D5185m     1     <1   | Molybdenum       |              | ASTM D5185m |             | 6           | 3           | 3           |      |
| Magnesium     ppm     ASTM D5185m     96     55     52       Calcium     ppm     ASTM D5185m     4253     2781     2874       Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623   |                  |              | ASTM D5185m |             | 1           | <1          | <1          |      |
| Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623   | Magnesium        | ppm          | ASTM D5185m |             | 96          | 55          | 52          |      |
| Phosphorus     ppm     ASTM D5185m     1392     974     942       Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623   | Calcium          | ppm          | ASTM D5185m |             | 4253        | 2781        | 2874        |      |
| Zinc     ppm     ASTM D5185m     1573     1096     1126       Sulfur     ppm     ASTM D5185m     10903     7867     8623   | Phosphorus       |              | ASTM D5185m |             | 1392        | 974         | 942         |      |
|  | Zinc             |              | ASTM D5185m |             | 1573        | 1096        | 1126        |      |
|  | Sulfur           | ppm          | ASTM D5185m |             | 10903       | 7867        | 8623        |      |
|  | Visc @ 40°C      |              | ASTM D445   | 195         | 173         | 175         | 177         |      |









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kemp Quarries - River Valley - Ozark Sample No. Received 9446 N Hwy 309 : PCA0086937 : 19 Apr 2024 Lab Number : 06155373 Tested : 24 Apr 2024 Ozark, AR Diagnosed Unique Number : 10990796 : 24 Apr 2024 - Jonathan Hester US 72949 Test Package : MOB 1 Contact: Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ozark@rivervalleyquarries.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)