

[836826]

194024 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

.....

WEAR

All component wear rates are normal.

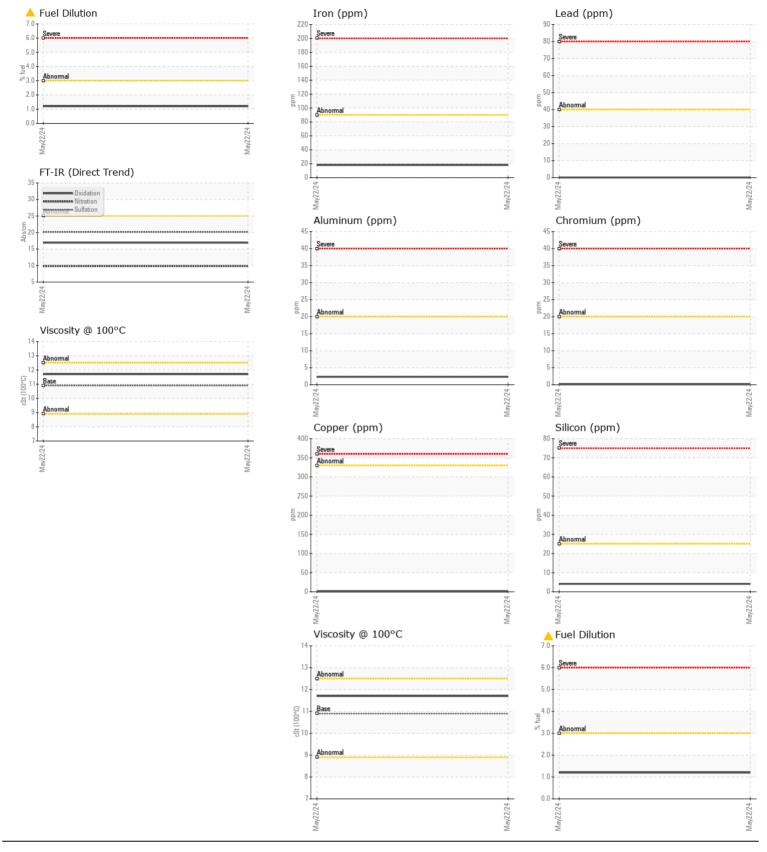
CONTAMINATION

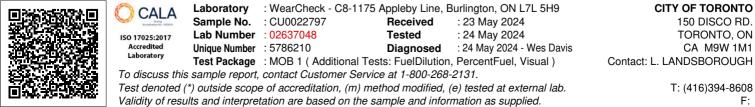
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

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

| Test UOM Method Limit/An Current History1 History2 Sample Number Client Info ZMay2024 Machine Age hrs Client Info 0 Machine Age hrs Client Info 0 Filter Age hrs Client Info N/A Oil Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTMD5185(m) >20 <1 Nickel ppm ASTMD5185(m) >20 Nickel ppm ASTMD5185(m) >20 0 Aluminum ppm ASTMD5185(m) >20 Lead ppm ASTMD5185(m) >30 1 Vanadium ppm ASTMD5185(m) >20 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
|---|----------------|----------|---------------|-----------|-------------|----------|----------|
| Sample Number Client Info CU0022797 Machine Age hrs Client Info 0 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status Kill MDS185m >20 Kinon ppm ASTMD5185m >20 Kickel ppm ASTMD5185m >20 Nickel ppm ASTMD5185m >20 Silver ppm ASTMD5185m >20 Aluminum ppm ASTMD5185m >300 C1 Vanadium ppm ASTMD5185m >20 2 | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Sample Date Client Info 22 May 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Filter Age hrs Client Info N/A Sample Status Client Info N/A Iron ppm ASTMD5185(m) >20 <1 Nickel ppm ASTMD5185(m) >2 0 Aluminum ppm ASTMD5185(m) >2 0 Vanadium ppm ASTMD5185(m) >20 2 Vanadium ppm ASTMD5185(m) >10 Vanadium ppm ASTMD5185(m) >25 4 Vanadium ppm ASTMD5185(m) | Sample Number | | Client Info | | | | , |
| Machine Age hrs Client Info 0 Filter Age hrs Client Info 0 Filter Age hrs Client Info N/A Filter Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM 05185(m) >20 <1 Chromium ppm ASTM 05185(m) >20 Nickel ppm ASTM 05185(m) >20 0 Aluminum ppm ASTM 05185(m) >20 0 Vanadum ppm ASTM 05185(m) >20 1 Vanadum ppm ASTM 05185(m) >30 <1 Vanadum ppm ASTM 05185(m) >20 2 Vellow Metal | | | | | 22 May 2024 | | |
| 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 MARGINAL Iron ppm ASTM05185(m) >20 <1 Chromium ppm ASTM05185(m) >20 0 Nickel ppm ASTM05185(m) >20 0 Nickel ppm ASTM05185(m) >20 0 Silver ppm ASTM05185(m) >20 2 Copper ppm ASTM05185(m) >20 2 Vanadium ppm ASTM05185(m) >20 2 Vellow Metal scalar Visual* NONE <th></th> <th>hrs</th> <th>Client Info</th> <th></th> <th></th> <th></th> <th></th> | | hrs | Client Info | | | | |
| Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status MARGINAL Iron ppm ASTM D5185(m) >90 18 Nickel ppm ASTM D5185(m) >2 0 Nickel ppm ASTM D5185(m) >2 0 Aluminum ppm ASTM D5185(m) >20 0 Lead ppm ASTM D5185(m) >20 0 Vanadium ppm ASTM D5185(m) >10 Vanadium ppm ASTM D5185(m) >10 Vanadium ppm ASTM D5185(m) >20 2 Vanadium ppm ASTM D5185(m) >20 2 Vellow Metal | - | hrs | Client Info | | 0 | | |
| Filter Changed Client Info N/A Sample Status ViA Iron ppm ASTM D5185(m) >90 18 Iron ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >20 <1 Silver ppm ASTM D5185(m) >20 0 Aluminum ppm ASTM D5185(m) >20 0 Copper ppm ASTM D5185(m) >300 <1 Vanadium ppm ASTM D5185(m) >10 Veltow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 2 Silicon ppm ASTM D5185(m) >20 2 <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th> | Filter Age | hrs | Client Info | | 0 | | |
| Sample Status MARGINAL Iron ppm ASTM D5185(m)<>90 18 Chromium ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >2 0 Titanium ppm ASTM D5185(m) >2 0 Silver ppm ASTM D5185(m) >20 2 Aluminum ppm ASTM D5185(m) >20 0 Qanadium ppm ASTM D5185(m) >300 <1 Vanadium ppm ASTM D5185(m) >300 <1 Vanadium ppm ASTM D5185(m) >20 2 Vanadium ppm ASTM D5185(m) >20 2 Vellow Metal scalar Visual* NONE | Oil Changed | | Client Info | | N/A | | |
| Iron ppm ASTM D5185(m) >20 18 Chromium ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >2 0 Silver ppm ASTM D5185(m) >2 0 Aluminum ppm ASTM D5185(m) >20 2 Lead ppm ASTM D5185(m) >40 0 Vanadium ppm ASTM D5185(m) >40 0 Vanadum ppm ASTM D5185(m) >50 0 Vanadum ppm ASTM D5185(m) >20 2 Vanadum ppm ASTM D5185(m) >20 2 Vanadum ppm ASTM D5185(m) >20 2 | Filter Changed | | Client Info | | N/A | | |
| Chromium ppm ASTM D5185(m) >20 <1 | Sample Status | | | | MARGINAL | | |
| Chromium ppm ASTM D5185(m) >20 <1 | | | | | | | |
| Nickel ppm ASTM D5185(m) >2 0 Titanium ppm ASTM D5185(m) >2 0 Silver ppm ASTM D5185(m) >20 2 Aluminum ppm ASTM D5185(m) >20 2 Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >50 0 Vanadium ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) >20 2 Vandout scalar Visual* NONE NONE Vandout ppm ASTM D5185(m) >20 2 | | | | | - | | |
| Titanium ppm ASTM D5185(m) >2 0 Aluminum ppm ASTM D5185(m) >20 2 Aluminum ppm ASTM D5185(m) >40 0 Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >15 00 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >20 4 Vellow Metal scalar Visual* NONE Solicon ppm ASTM D7639* >3.0 1.2 Fuel % ASTM D764* >6 0.7 Glycol WC Method | | | () | | | | |
| Silver ppm ASTM D3185/m >2 0 Aluminum ppm ASTM D5185/m >20 2 Lead ppm ASTM D5185/m >40 0 Copper ppm ASTM D5185/m >15 0 Vanadium ppm ASTM D5185/m >15 0 Vanadium ppm ASTM D5185/m >15 0 Vanadium ppm ASTM D5185/m >20 A Vanadium ppm ASTM D5185/m >20 2 Vellow Metal scalar Visual* NONE Silicon ppm ASTM D7583* >3.0 A 1.2 Glycol WC Method >0.2 NEG Soot % % | | | (/ | | - | | |
| Aluminum ppm ASTM D5185(m) >20 2 Lead ppm ASTM D5185(m) >300 <1 Copper ppm ASTM D5185(m) >330 <1 Vanadium ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) >10 Vanadium ppm ASTM D5185(m) >20 2 Vellow Metal scalar Visual* NONE NONE Solicon ppm ASTM D5185(m) >20 2 Water //////////////////////////////////// | | | () | | - | | |
| Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >330 <1 Vanadium ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Solicon ppm ASTM D5185(m) >20 2 Fuel % ASTM D5185(m) >20 2 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % ASTM D7834* >6 0.7 Sulfation Abs/rm ASTM D7624* >20 9.8 Sulfation | | | (/ | | - | | |
| Copper ppm ASTM D5185(m) >330 <1 | | | (/ | | | | |
| Tin ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 2 Potassium ppm ASTM D5185(m) >20 2 Fuel % ASTM D5185(m) >20 2 Water WC Method >0.2 NEG Gilycol WC Method >0.2 NEG Sott % & ASTM D7624* >20 9.8 Sulfation Abs/tmm ASTM D7624* >20 9.8 Solution Abs/tmm ASTM D7624* >30 20.1 | | | () | | | | |
| Name ppm ASTM D5185(m) O White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >25 4 Potassium ppm ASTM D5185(m) >20 2 Fuel % ASTM D5185(m) >20 2 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % ASTM D7624* >20 9.8 Sulfation Abs/rm ASTM D764* >20 9.8 Sulfation Abs/rm ASTM D7624* >20 9.8 Sulfation Abs/rm ASTM D764* >00 | | | | | | | |
| White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 2 Potassium ppm ASTM D5185(m) >20 2 Fuel % ASTM D7593* >3.0 ▲ 1.2 Water WC Method >0.2 NEG Glycol WC Method >0.2 9.8 Soot % % ASTM D7844* >6 0.7 Sulfation Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/rm ASTM D7455 >30 20.1 Sulfation Abs/rm ASTM D7457 >30 20.1 Sulfation calar Visual* NONE NONE Sulfation scalar Visual* NORE NORE | | | | >15 | | | |
| Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 2 Potassium ppm ASTM D5185(m) >20 2 Fuel % ASTM D7593* >3.0 ▲ 1.2 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % ASTM D784* >6 0.7 Solfation Abs/.mm ASTM D7624* >20 9.8 Sulfation Abs/.mm ASTM D715* >30 20.1 Debris scalar Visual* NONE NONE Appearance scalar Visual* NORM NORML Boron ppm ASTM D5185(m) | | | | | - | | |
| Silicon ppm ASTM D5185(m) >25 4 Potassium ppm ASTM D5185(m) >20 2 Fuel % ASTM D5185(m) >20 1.2 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % ASTM D7624* >20 9.8 Nitration Abs/rm ASTM D7624* >20 9.8 Sulfation Abs/rm ASTM D7624* >20 9.8 Sulfation Abs/rm ASTM D7624* >20 9.8 Sulfation Abs/rm ASTM D7624* >0 9.0 1 Sulfation Abs/rm ASTM D7145* >30 20.1 Debris scalar Visual* NONE Appearance | | | | | - | | |
| Potassium ppm ASTM D5185(m) >20 2 Fuel % ASTM D5185(m) >20 1.2 Water WC Method >0.2 NEG Glycol WC Method NEG Soot % % ASTM D7844* >6 0.7 Nitration Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/tm ASTM D7624* >20 9.8 Sulfation Abs/tm ASTM D7415* >30 20.1 Sulfation Abs/tm ASTM D7415* >30 20.1 Sulfation Abs/tm ASTM D7415* >30 20.1 Sulfation scalar Visual* NONE NORE Appearance scalar Visual* NORM <th>Yellow Metal</th> <th>scalar</th> <th>Visual*</th> <th>NONE</th> <th>NONE</th> <th></th> <th></th> | Yellow Metal | scalar | Visual* | NONE | NONE | | |
| Potassium ppm ASTM D5185(m) >20 2 Fuel % ASTM D5185(m) >20 1.2 Water WC Method >0.2 NEG Glycol WC Method NEG Soot % % ASTM D7844* >6 0.7 Nitration Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/tm ASTM D7624* >20 9.8 Sulfation Abs/tm ASTM D7415* >30 20.1 Sulfation Abs/tm ASTM D7415* >30 20.1 Sulfation Abs/tm ASTM D7415* >30 20.1 Sulfation scalar Visual* NONE NORE Appearance scalar Visual* NORM <th>Silicon</th> <th>nom</th> <th>ASTM D5185(m)</th> <th>>25</th> <th>4</th> <th></th> <th></th> | Silicon | nom | ASTM D5185(m) | >25 | 4 | | |
| Fuel % ASTM D7593* >3.0 ▲ 1.2 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % ASTM D7593* >3.0 NEG Sulfation Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/rm ASTM D7145* >30 20.1 Sulfation scalar Visual* NONE NORE Debris scalar Visual* NORM NORML Appearance scalar Visual*< | | | () | | - | | |
| Water WC Method >0.2 NEG Glycol WC Method NEG Soot % % ASTM D7844* >6 0.7 Nitration Abs/cm ASTM D7844* >20 9.8 Sulfation Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/cm ASTM D7115* >30 20.1 Silt scalar Visual* NONE VLITE Sand/Dirt scalar Visual* NORE NORE Appearance scalar Visual* NORM NORML Boron ppm ASTMD5185(m) 250 2 | | | · · · · | | _ | | |
| Glycol WC Method NEG Soot % % ASTM D7844* >6 0.7 Nitration Abs/cm ASTM D7844* >20 9.8 Sulfation Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/cm ASTM D7624* >30 20.1 Sulfation Abs/cm ASTM D7115* >30 20.1 Sulfation scalar Visual* NONE VLITE Debris scalar Visual* NORM NORE Appearance scalar Visual* NORM NORML Gdyor scalar Visual* NORM NOREG Boron ppm ASTM | | ,0 | | | | | |
| Soot % % ASTM D7844* >6 0.7 Nitration Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/.1mm ASTM D7624* >30 20.1 Sulfation Abs/.1mm ASTM D7415* >30 20.1 Silt scalar Visual* NONE VLITE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORM NORML Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Boron ppm ASTM D5185(m) >75 1 Barium ppm ASTM D5185(m) 100 0 Maganese | | | | 20.2 | | | |
| Nitration Abs/cm ASTM D7624* >20 9.8 Sulfation Abs/cm ASTM D7624* >30 20.1 Sulfation Abs/tmm ASTM D7415* >30 20.1 Silt scalar Visual* NONE VLITE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Boron scalar Visual* >0.2 NEG Boron ppm ASTM D5185(m) >75 1 Barium ppm ASTM D5185(m) 10 0 Magnesium ppm ASTM D5185(m) 100 59 | | % | | >6 | | | |
| Sulfation Abs/.1mm ASTM D7415* >30 20.1 Silt scalar Visual* NONE VLITE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Sodium ppm ASTM D5185(m) >75 1 Boron ppm ASTM D5185(m) 250 2 Barium ppm ASTM D5185(m) 10 0 Magnesium ppm ASTM D5185(m) 100 59 Magnesium pp | | | | | | | |
| Silt scalar Visual* NONE VLITE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG Sodium ppm ASTM D5185(m) 250 2 Boron ppm ASTM D5185(m) 10 0 Malganese ppm ASTM D5185(m) 100 59 Magnesium ppm A | | | | | | | |
| Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG Sodium ppm ASTM D5185(m) >75 1 Boron ppm ASTM D5185(m) 250 2 Barium ppm ASTM D5185(m) 100 0 Malganese ppm ASTM D5185(m) 100 59 Magnesium ppm ASTM D5185(m) 3000 1017 Phosphorus | | | | | | | |
| Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* NORML NORML Sodium ppm scalar Visual* >0.2 NEG Boron ppm ASTM D5185(m) >75 1 Barium ppm ASTM D5185(m) 250 2 Molybdenum ppm ASTM D5185(m) 10 0 Magnesium ppm ASTM D5185(m) 100 59 Magnesium ppm ASTM D5185(m) 450 949 Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
| Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* NORML NORML Sodium ppm ASTM D5185(m) >75 1 Boron ppm ASTM D5185(m) 250 2 Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 59 Magnesium ppm ASTM D5185(m) 450 949 Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Sulfur ppm ASTM D5185(m) 1350 1163 Oxidation | | | | - | - | | |
| Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG Sodium ppm ASTM D5185(m) >75 1 Boron ppm ASTM D5185(m) 250 2 Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 59 Manganese ppm ASTM D5185(m) 450 949 Magnesium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | | | | | | | |
| Emulsified Water scalar Visual* >0.2 NEG Sodium ppm ASTM D5185(m) >75 1 Boron ppm ASTM D5185(m) 250 2 Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 59 Manganese ppm ASTM D5185(m) 450 949 Magnesium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | | | | | | | |
| Sodium ppm ASTM D5185(m) >75 1 Boron ppm ASTM D5185(m) 250 2 Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 59 Manganese ppm ASTM D5185(m) 100 59 Magnesium ppm ASTM D5185(m) 450 949 Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | | | | | | | |
| Boron ppm ASTM D5185(m) 250 2 Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 59 Manganese ppm ASTM D5185(m) 450 949 Magnesium ppm ASTM D5185(m) 3000 1017 Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Sulfur ppm ASTM D5185(m) 1350 1163 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | | Jourun | | | | | |
| Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 59 Manganese ppm ASTM D5185(m) 100 59 Magnesium ppm ASTM D5185(m) 450 949 Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Sodium | ppm | ASTM D5185(m) | >75 | 1 | | |
| Molybdenum ppm ASTM D5185(m) 100 59 Manganese ppm ASTM D5185(m) <<1 Magnesium ppm ASTM D5185(m) 450 949 Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Boron | ppm | ASTM D5185(m) | 250 | 2 | | |
| Manganese ppm ASTM D5185(m) <1 | Barium | ppm | ASTM D5185(m) | 10 | 0 | | |
| Magnesium ppm ASTM D5185(m) 450 949 Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Molybdenum | ppm | ASTM D5185(m) | 100 | 59 | | |
| Calcium ppm ASTM D5185(m) 3000 1017 Phosphorus ppm ASTM D5185(m) 1150 973 Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Manganese | ppm | ASTM D5185(m) | | <1 | | |
| Phosphorus ppm ASTM D5185(m) 1150 973 Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Magnesium | ppm | ASTM D5185(m) | 450 | 949 | | |
| Zinc ppm ASTM D5185(m) 1350 1163 Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Calcium | ppm | ASTM D5185(m) | 3000 | 1017 | | |
| Sulfur ppm ASTM D5185(m) 4250 2474 Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Phosphorus | ppm | ASTM D5185(m) | 1150 | 973 | | |
| Oxidation Abs/.1mm ASTM D7414* >25 16.9 | Zinc | ppm | ASTM D5185(m) | 1350 | 1163 | | |
| | Sulfur | ppm | ASTM D5185(m) | 4250 | 2474 | | |
| Visc @ 100°C cSt ASTM D7279(m) 10.9 11.7 | Oxidation | Abs/.1mm | ASTM D7414* | >25 | 16.9 | | |
| | Visc @ 100°C | cSt | ASTM D7279(m) | 10.9 | 11.7 | | |





Contact/Location: L. LANDSBOROUGH - ETOREX Page 2 of 2