



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
FREIGHTLINER 771
Component
Diesel Engine
Fluid
CASTROL TECTION EXTRA SAE 15W-40 (38 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0781413 | WC0526821 | WC111995 |
| Sample Date | | Client Info | | 04 Jun 2024 | 27 Apr 2022 | 09 Apr 2019 |
| Machine Age | kms | Client Info | | 1361805 | 1309219 | 276115 |
| Oil Age | kms | Client Info | | 52586 | 33104 | 32975 |
| Filter Age | kms | Client Info | | 52586 | 33104 | 32975 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >200 | 40 | 32 | 69 |
| Chromium | ppm | ASTM D5185(m) | >10 | 1 | 2 | 4 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >30 | 2 | 2 | 4 |
| Lead | ppm | ASTM D5185(m) | >30 | 10 | 5 | 6 |
| Copper | ppm | ASTM D5185(m) | >30 | 3 | 4 | 10 |
| Tin | ppm | ASTM D5185(m) | >4 | <1 | 2 | 1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

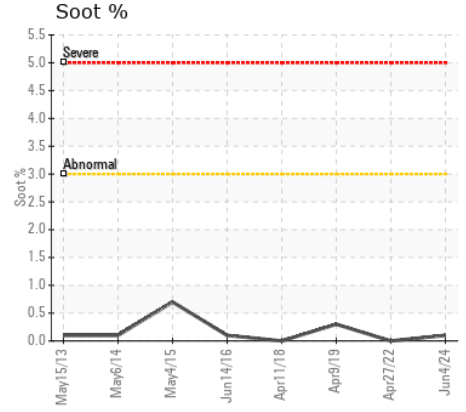
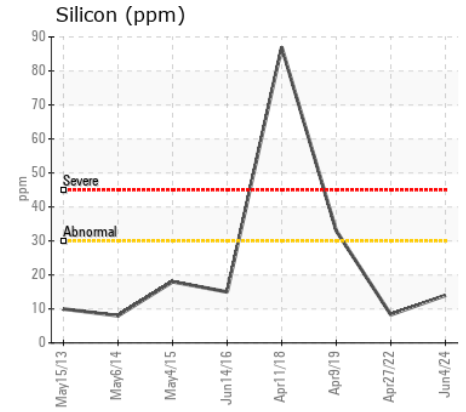
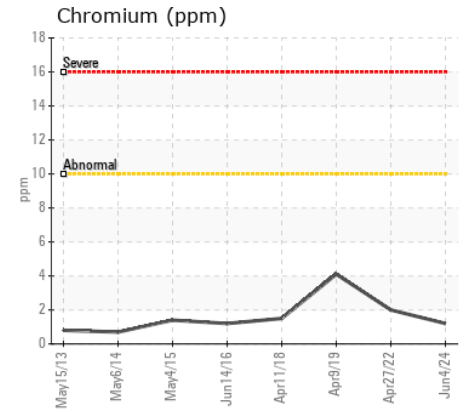
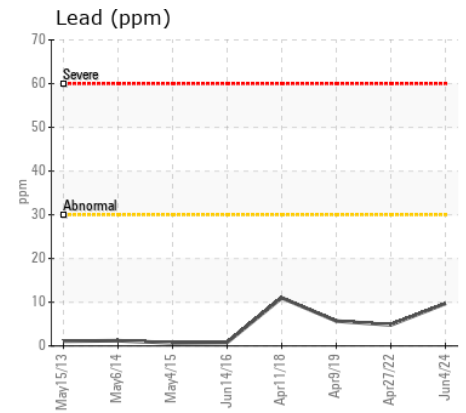
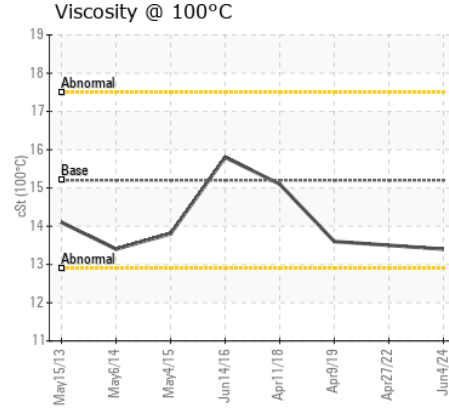
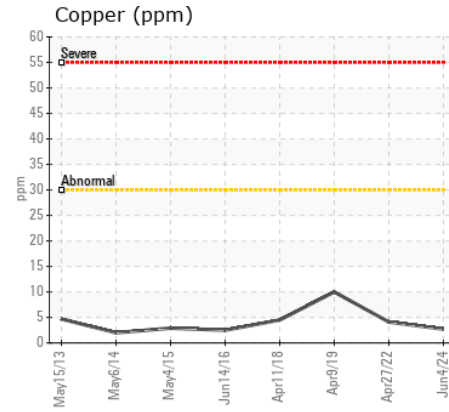
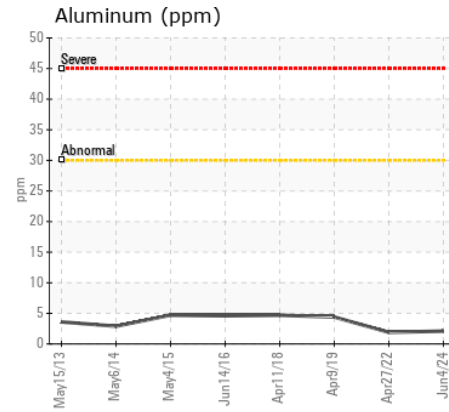
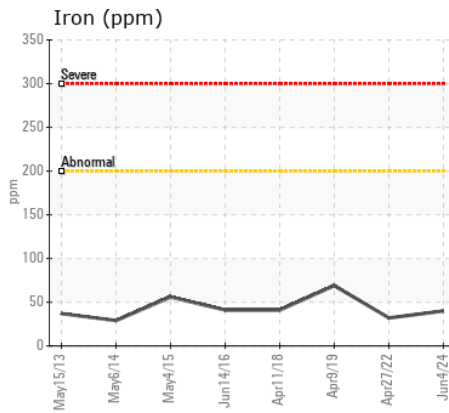
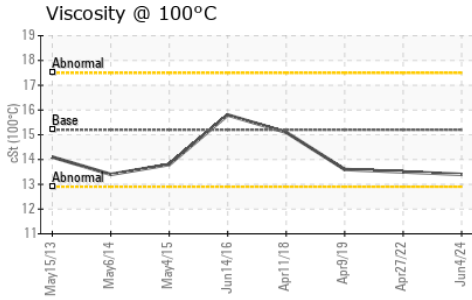
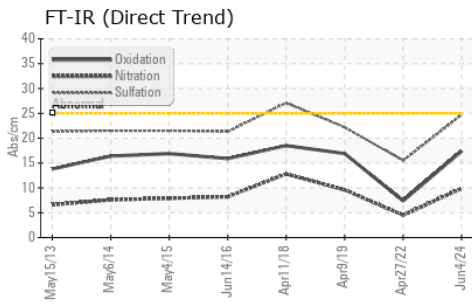
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >30 | 14 | 8 | ▲ 33 |
| Potassium | ppm | ASTM D5185(m) | >20 | 3 | 4 | 30 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | 0.0 |
| Soot % | % | ASTM D7844* | >3 | 0.1 | 0 | 0.3 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.9 | 4.5 | 9.6 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 24.7 | 15.5 | 22.2 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|--------------|------|-------|
| Sodium | ppm | ASTM D5185(m) | | 8 | 15 | ● 116 |
| Boron | ppm | ASTM D5185(m) | 30 | 15 | 2 | 15 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 21 | 58 | 51 |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 110 | 226 | 816 | 778 |
| Calcium | ppm | ASTM D5185(m) | 2740 | 2068 | 1318 | 1273 |
| Phosphorus | ppm | ASTM D5185(m) | 1240 | 899 | 993 | 929 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1083 | 1221 | 1141 |
| Sulfur | ppm | ASTM D5185(m) | 3520 | 2702 | 2659 | 2667 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 17.4 | 7.4 | 16.9 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.2 | 13.4 | 13.5 | 13.6 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0781413
Lab Number : 02641928
Unique Number : 5799467
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.