



OIL ANALYSIS REPORT

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

Machine Id
2202
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0903000 | WC0875078 | WC0858050 |
| Sample Date | | Client Info | | 09 May 2024 | 18 Dec 2023 | 21 Oct 2023 |
| Machine Age | kms | Client Info | | 197212 | 165483 | 157154 |
| Oil Age | kms | Client Info | | 0 | 0 | 0 |
| Filter Age | kms | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | Changed |
| Filter Changed | | Client Info | | N/A | N/A | Changed |
| Sample Status | | | | NORMAL | ATTENTION | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >75 | 10 | 14 | 8 |
| Chromium | ppm | ASTM D5185(m) | >5 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >15 | 1 | 2 | 1 |
| Lead | ppm | ASTM D5185(m) | >25 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >100 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

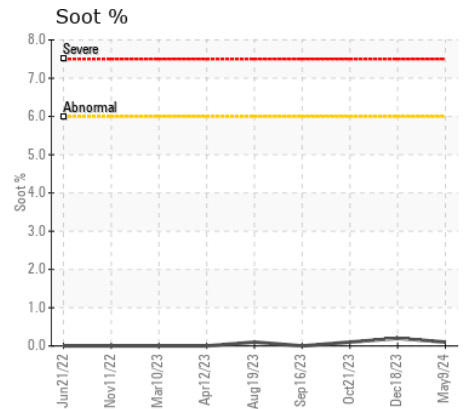
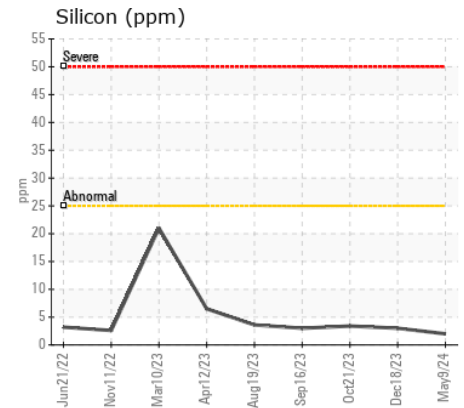
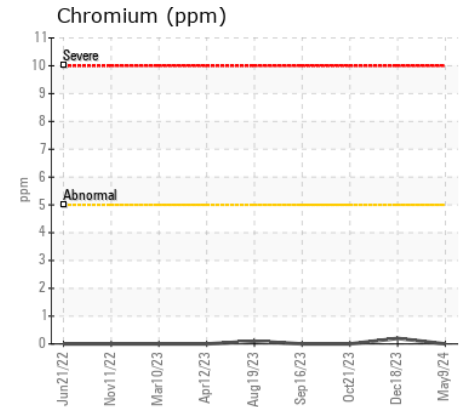
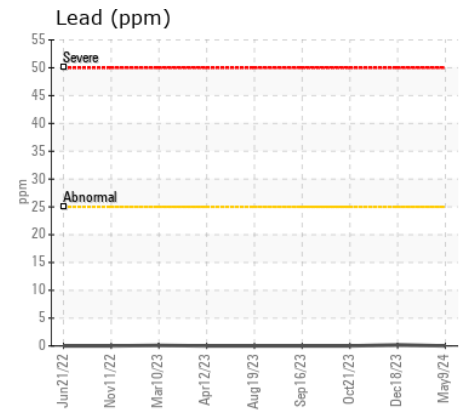
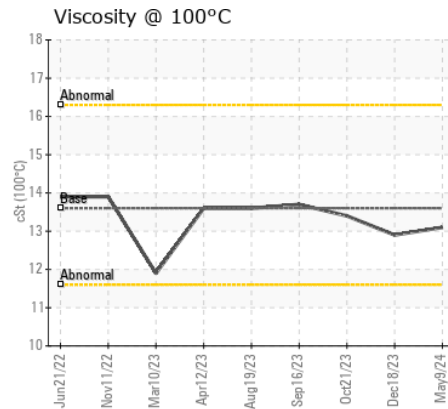
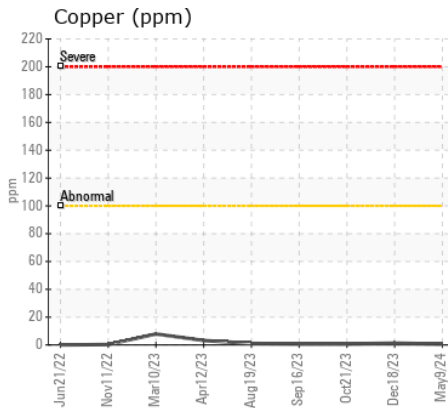
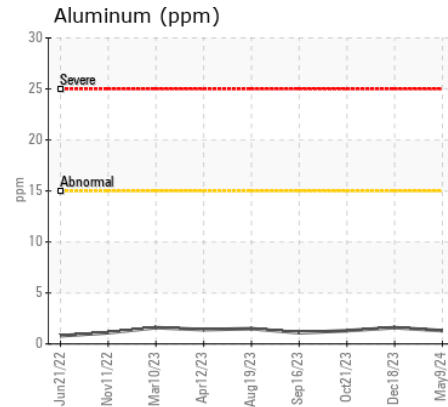
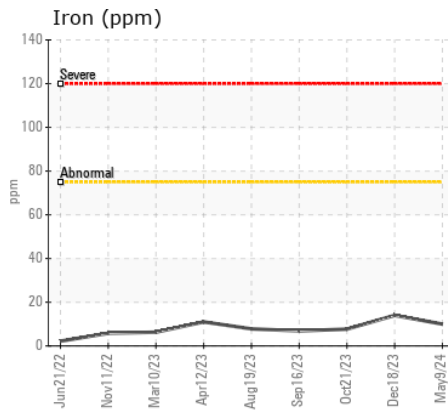
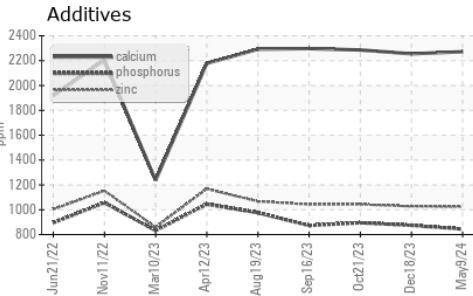
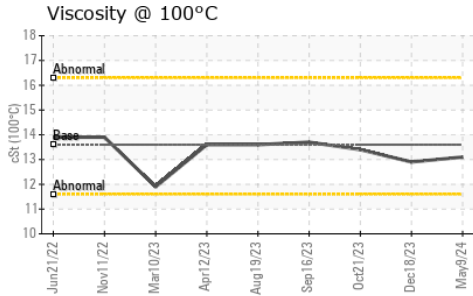
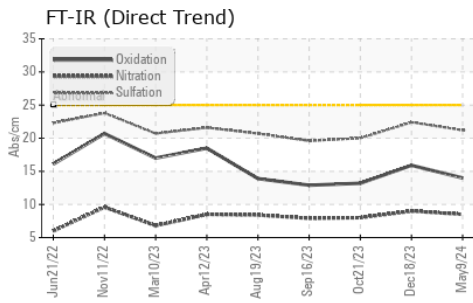
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 2 | 3 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | 3 | 2 | <1 |
| Fuel | | WC Method | >3.0 | <1.0 | ▲ 2 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >6 | 0.1 | 0.2 | 0.1 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.5 | 9.0 | 8.0 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 21.2 | 22.4 | 20.0 |
| 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) | | 10 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | 39 | 12 | 12 | 11 |
| Barium | ppm | ASTM D5185(m) | 1 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 49 | 8 | 10 | 8 |
| Manganese | ppm | ASTM D5185(m) | 1 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 616 | 66 | ● 60 | 40 |
| Calcium | ppm | ASTM D5185(m) | 1554 | 2272 | ● 2255 | 2286 |
| Phosphorus | ppm | ASTM D5185(m) | 899 | 844 | 874 | 895 |
| Zinc | ppm | ASTM D5185(m) | 1069 | 1024 | 1027 | 1043 |
| Sulfur | ppm | ASTM D5185(m) | 2624 | 2881 | 3116 | 2984 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.0 | 15.9 | 13.2 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 13.6 | 13.1 | 12.9 | 13.4 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0903000
Lab Number : 02639121
Unique Number : 5788283
Test Package : MOB 1
Received : 31 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

MVT Canadian Bus
 133 Welham Road
 Barrie, ON
 CA L4N 8Y3
 Contact: Kyle Trew
 kyle.trew@mvtcanada.com

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.