



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



Machine Id
VOLVO G740 2400200
Component
Diesel Engine
Fluid
PETRO CANADA 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PC0088729 | PC0072442 | PC0072566 |
| Sample Date | | Client Info | | 23 Apr 2024 | 23 May 2023 | 11 Apr 2023 |
| Machine Age | hrs | Client Info | | 229 | 13684 | 13560 |
| Oil Age | hrs | Client Info | | 0 | 100 | 250 |
| Filter Age | hrs | Client Info | | 0 | 100 | 250 |
| Oil Changed | | Client Info | | Changed | Not Chngd | Changed |
| Filter Changed | | Client Info | | Changed | Not Chngd | Changed |
| Sample Status | | | | NORMAL | NORMAL | SEVERE |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|---------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >100 | 24 | 6 | 7 |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | ▲ 6 |
| Aluminum | ppm | ASTM D5185(m) | >10 | 2 | 2 | 1 |
| Lead | ppm | ASTM D5185(m) | >20 | 6 | <1 | 2 |
| Copper | ppm | ASTM D5185(m) | >15 | 6 | 2 | 2 |
| Tin | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |

CONTAMINATION

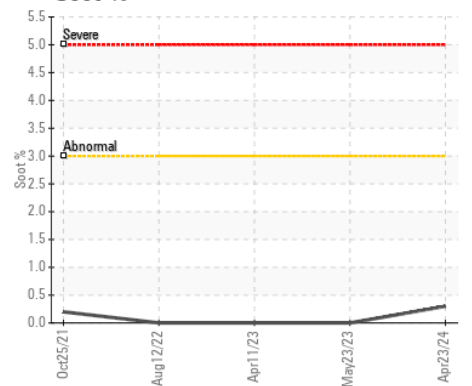
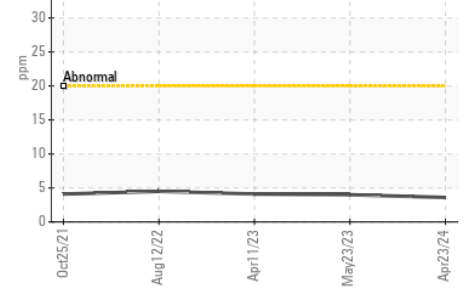
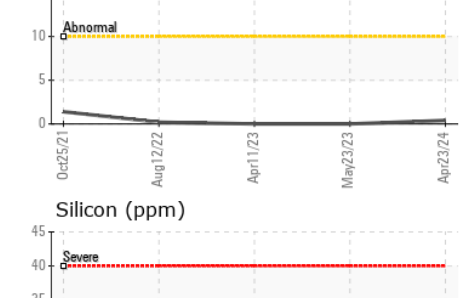
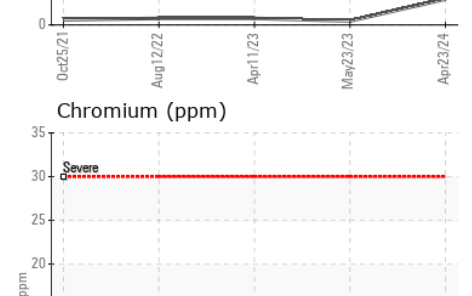
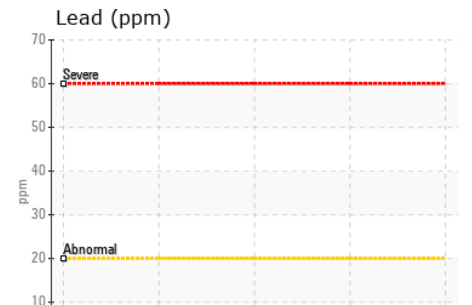
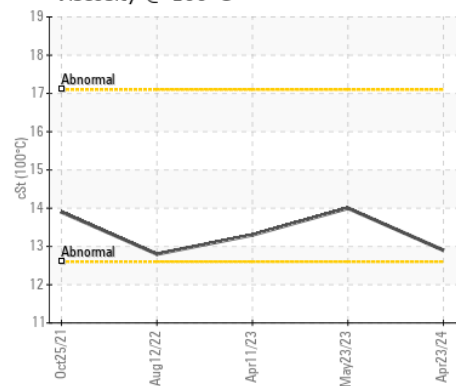
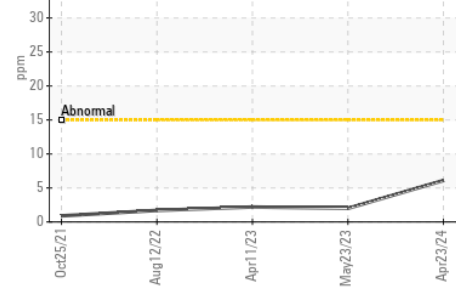
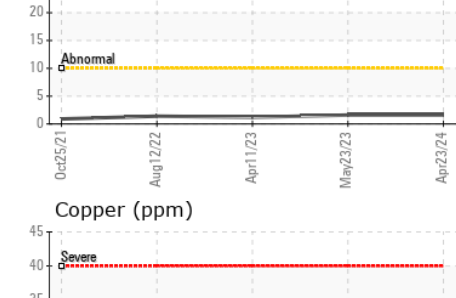
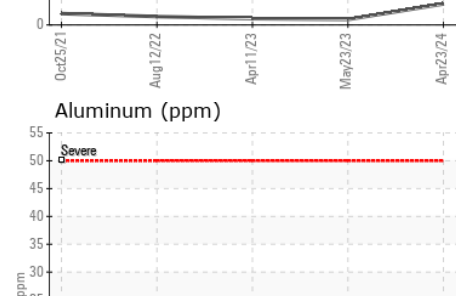
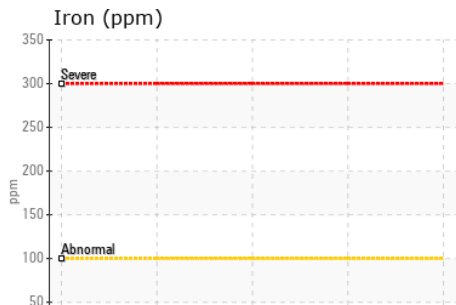
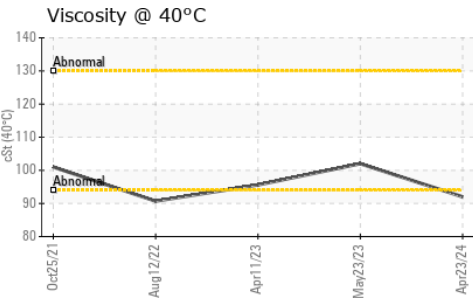
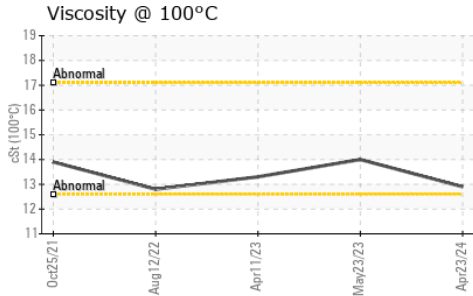
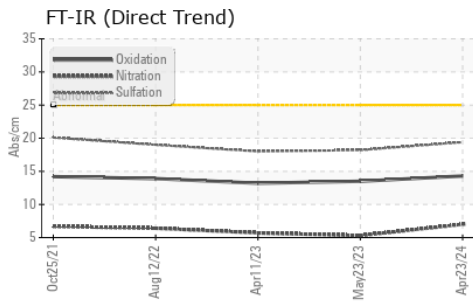
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >20 | 4 | 4 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 7 | <1 | 0 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.3 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.0 | 5.3 | 5.7 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.4 | 18.2 | 18.0 |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|----------------------|----------|---------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 6 | 2 | 3 |
| Boron | ppm | ASTM D5185(m) | | 2 | 2 | 5 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 57 | 58 | 57 |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 956 | 963 | 952 |
| Calcium | ppm | ASTM D5185(m) | | 1094 | 1076 | 1119 |
| Phosphorus | ppm | ASTM D5185(m) | | 974 | 1098 | 1081 |
| Zinc | ppm | ASTM D5185(m) | | 1171 | 1175 | 1172 |
| Sulfur | ppm | ASTM D5185(m) | | 2434 | 2707 | 2669 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.3 | 13.5 | 13.2 |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 92.0 | 102 | 95.6 |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 12.9 | 14.0 | 13.3 |
| Viscosity Index (VI) | Scale | ASTM D2270* | | 137 | 139 | 138 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088729 **Received** : 03 May 2024
Lab Number : 02633063 **Tested** : 03 May 2024
Unique Number : 5774216 **Diagnosed** : 03 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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.

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