



OIL ANALYSIS REPORT

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



Machine Id
VOLVO A30G HDTR0824
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 | | WC0902319 | WC0770006 | WC0750527 |
| Sample Date | | Client Info | | 05 Apr 2024 | 19 Mar 2023 | 02 Mar 2023 |
| Machine Age | hrs | Client Info | | 26244 | 19121 | 25251 |
| Oil Age | hrs | Client Info | | 0 | 250 | 250 |
| Filter Age | hrs | Client Info | | 0 | 250 | 250 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | MARGINAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >200 | 8 | 9 | 30 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | 6 | 1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >30 | 1 | 2 | 2 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >20 | <1 | 2 | <1 |
| Tin | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

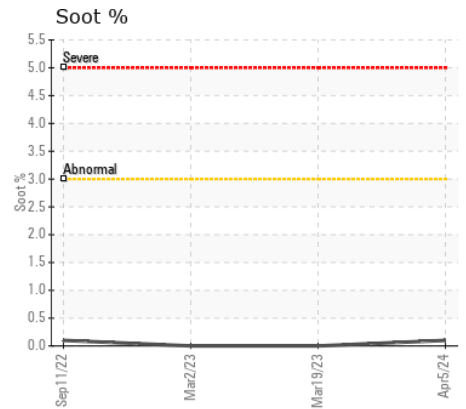
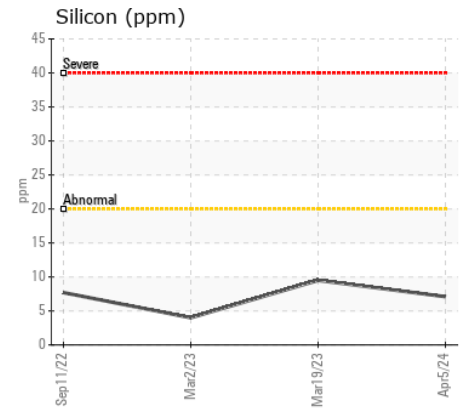
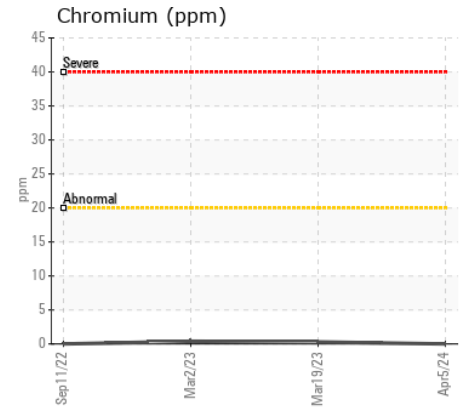
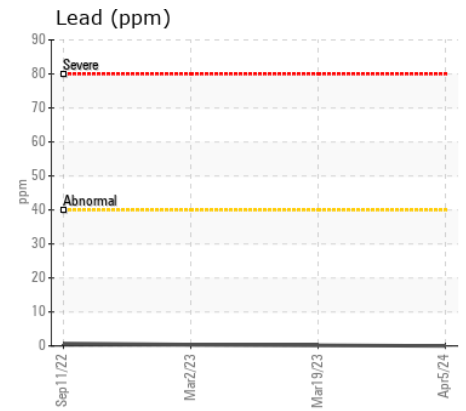
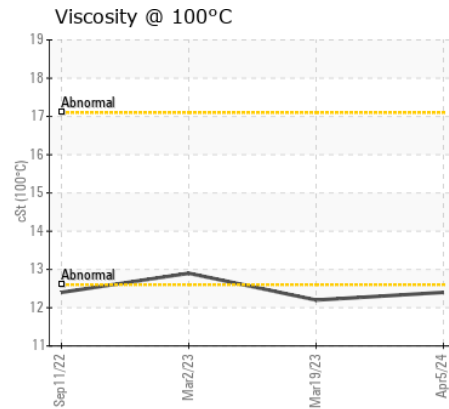
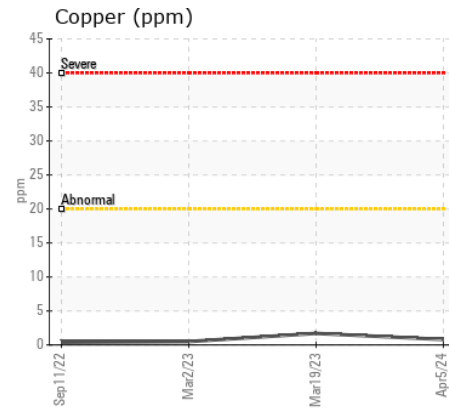
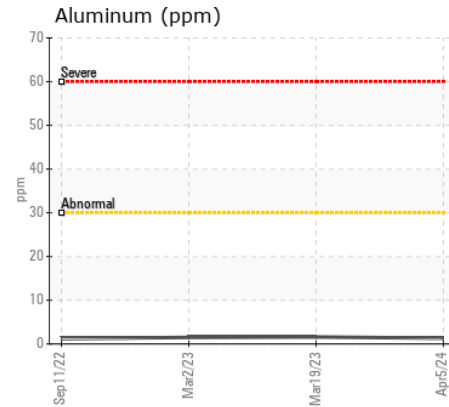
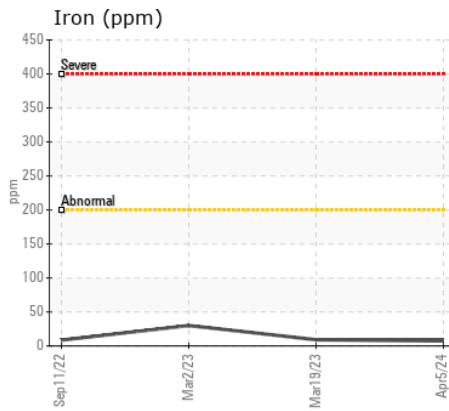
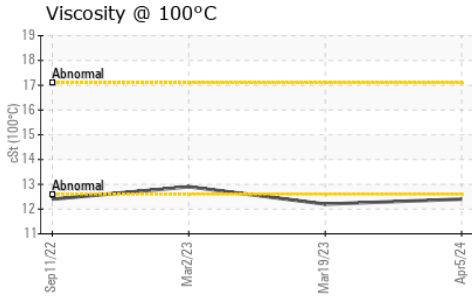
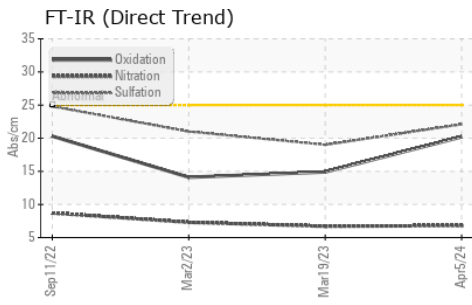
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|-------|------|
| Silicon | ppm | ASTM D5185(m) | >20 | 7 | 10 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Fuel | | WC Method | >3.0 | <1.0 | ▲ 2.3 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.1 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.8 | 6.7 | 7.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 22.1 | 19.0 | 21.0 |
| 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) | | 4 | 2 | 1 |
| Boron | ppm | ASTM D5185(m) | | 49 | 20 | 57 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 37 | 66 | 47 |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 496 | 985 | 308 |
| Calcium | ppm | ASTM D5185(m) | | 1667 | 1360 | 2024 |
| Phosphorus | ppm | ASTM D5185(m) | | 718 | 1172 | 1118 |
| Zinc | ppm | ASTM D5185(m) | | 831 | 1276 | 1204 |
| Sulfur | ppm | ASTM D5185(m) | | 2071 | 2927 | 3003 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 20.2 | 14.9 | 14.1 |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 12.4 | 12.2 | 12.9 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0902319
Lab Number : 02628360
Unique Number : 5761492
Test Package : MOB 1

Received : 12 Apr 2024
Tested : 12 Apr 2024
Diagnosed : 12 Apr 2024 - Wes Davis

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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.