



VOLVO

OIL ANALYSIS REPORT

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



Area
REGION OF WATERLOO [388565]
Machine Id
VOLVO L120H 633154
Component
Front Axle
Fluid
VOLVO WB 102 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP394560 | VCP391534 | VCP382424 |
| Sample Date | | Client Info | | 11 Jan 2024 | 30 Aug 2023 | 12 Apr 2023 |
| Machine Age | hrs | Client Info | | 4039 | 3000 | 2000 |
| Oil Age | hrs | Client Info | | 4000 | 3000 | 2000 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >500 | 175 | 147 | 80 |
| Chromium | ppm | ASTM D5185(m) | >20 | 4 | 3 | 2 |
| Nickel | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >30 | 2 | 2 | 1 |
| Lead | ppm | ASTM D5185(m) | >50 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >120 | 2 | 1 | <1 |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

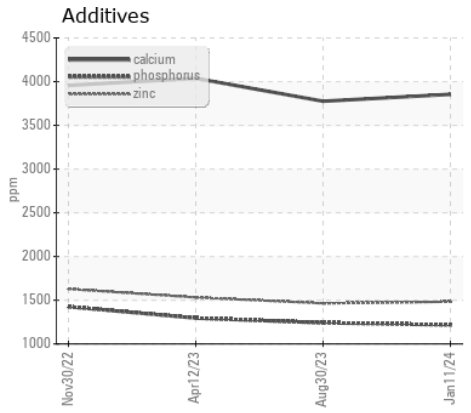
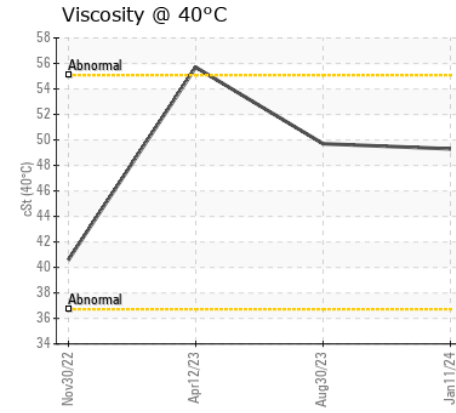
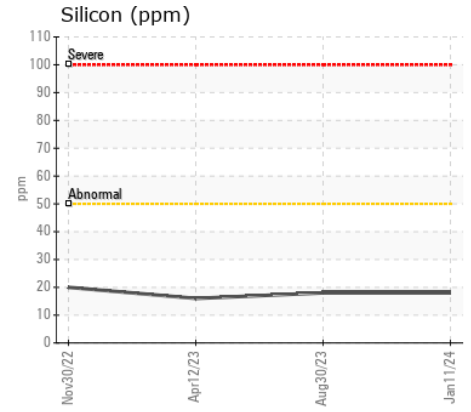
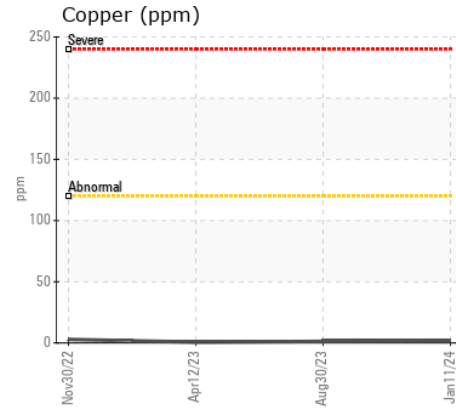
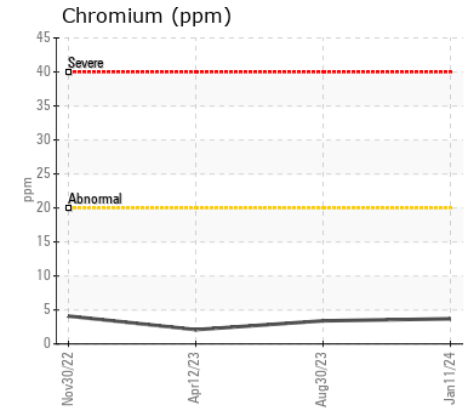
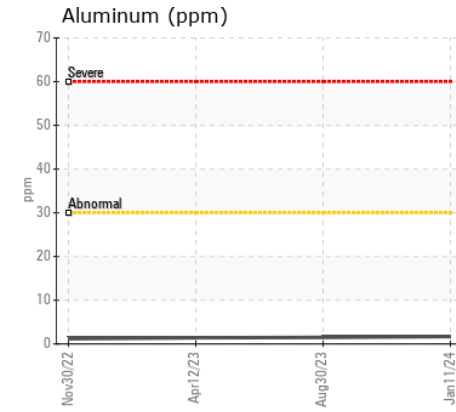
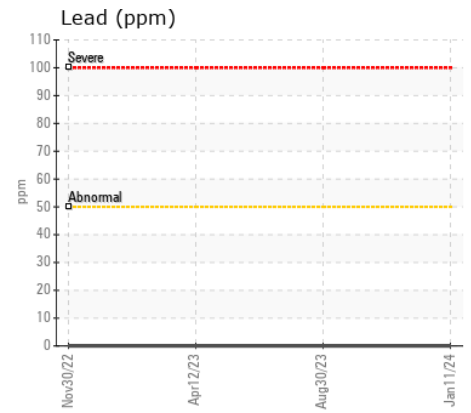
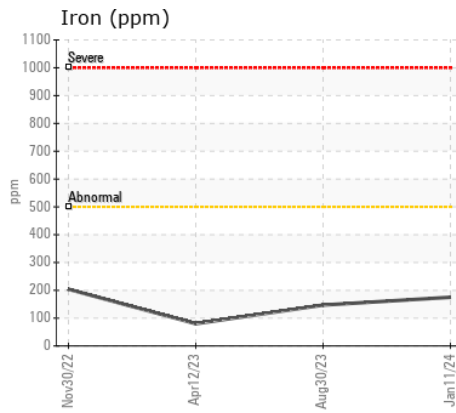
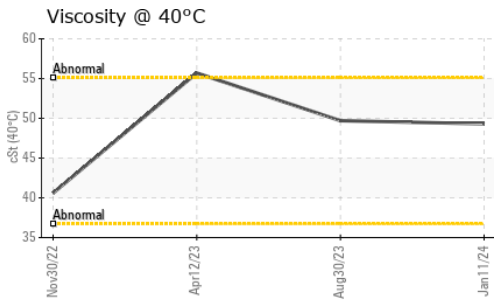
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >50 | 18 | 18 | 16 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| 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) | | 2 | 2 | 2 |
| Boron | ppm | ASTM D5185(m) | | 105 | 108 | 105 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 7 | 7 | 6 |
| Manganese | ppm | ASTM D5185(m) | | 6 | 6 | 4 |
| Magnesium | ppm | ASTM D5185(m) | | 16 | 15 | 14 |
| Calcium | ppm | ASTM D5185(m) | | 3855 | 3776 | 4038 |
| Phosphorus | ppm | ASTM D5185(m) | | 1217 | 1242 | 1296 |
| Zinc | ppm | ASTM D5185(m) | | 1483 | 1464 | 1532 |
| Sulfur | ppm | ASTM D5185(m) | | 4001 | 3613 | 3711 |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 49.3 | 49.7 | 55.7 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP394560 **Received** : 23 Jan 2024
Lab Number : 02610676 **Diagnosed** : 23 Jan 2024
Unique Number : 5711762 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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