



OIL ANALYSIS REPORT

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



Machine Id
VOLVO L120H 632510
Component
Diesel Engine
Fluid
IRVING 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0849252 | WC0896384 | WC0896326 |
| Sample Date | | Client Info | | 20 Jun 2024 | 07 May 2024 | 26 Mar 2024 |
| Machine Age | hrs | Client Info | | 28000 | 27500 | 27000 |
| Oil Age | hrs | Client Info | | 500 | 500 | 500 |
| Filter Age | hrs | Client Info | | 500 | 500 | 500 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|-------|-----|
| Iron | ppm | ASTM D5185(m) | >200 | 7 | 6 | 7 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >30 | 6 | 5 | 7 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | VLITE | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | --- |

CONTAMINATION

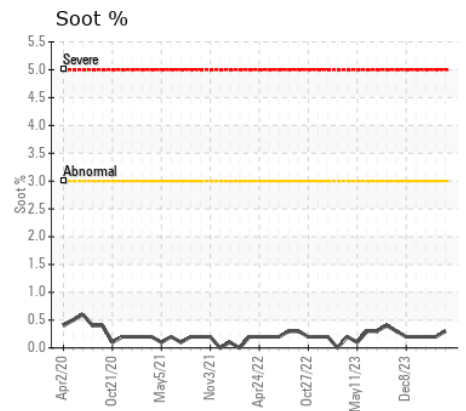
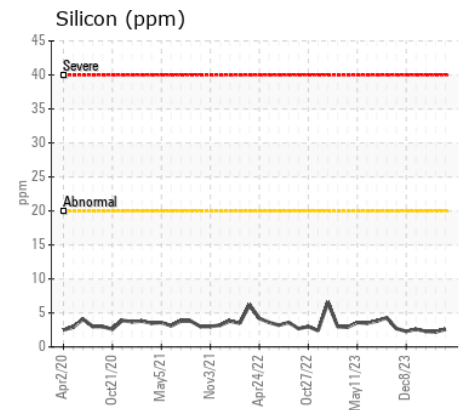
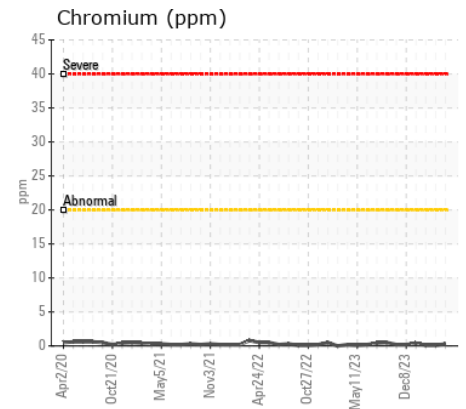
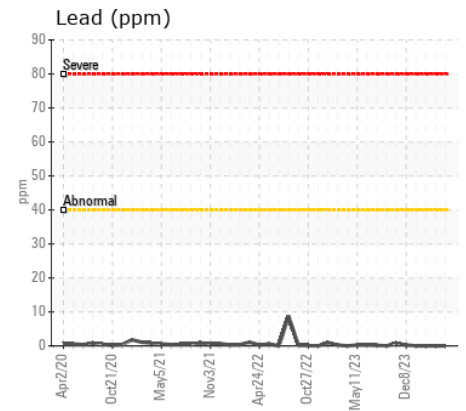
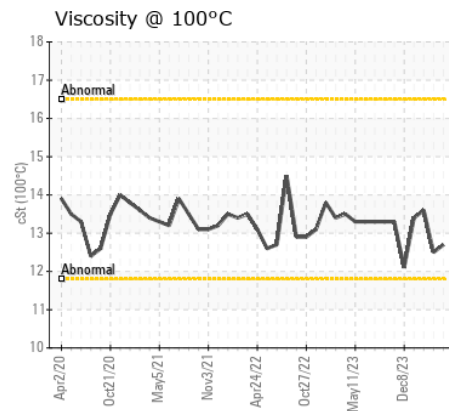
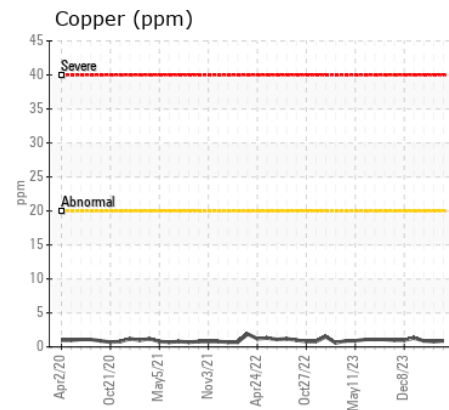
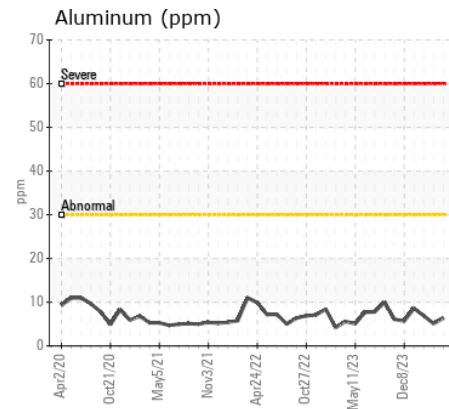
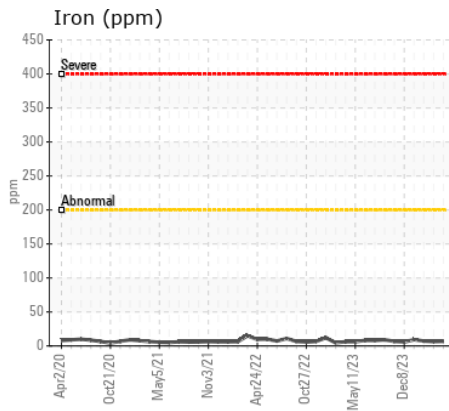
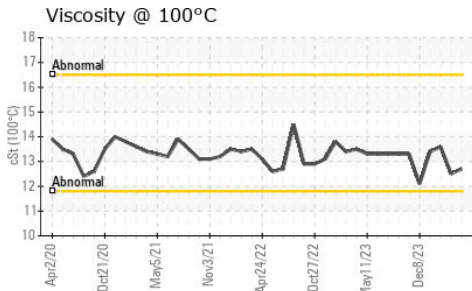
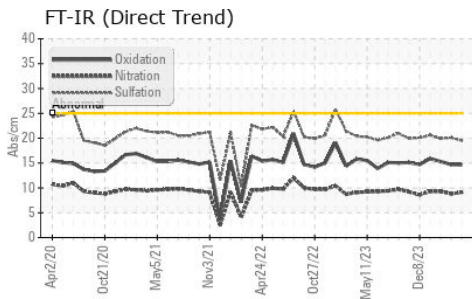
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >20 | 3 | 2 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | <1 | <1 |
| Fuel | | WC Method | >6.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.3 | 0.2 | 0.2 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.1 | 8.8 | 9.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.5 | 20.1 | 19.9 |
| Silt | scalar | Visual* | NONE | NONE | VLITE | --- |
| Debris | scalar | Visual* | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | --- |
| Appearance | scalar | Visual* | 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) | >101 | 2 | <1 | <1 |
| Boron | ppm | ASTM D5185(m) | | 25 | 31 | 32 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 3 | 3 | 2 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 28 | 32 | 25 |
| Calcium | ppm | ASTM D5185(m) | | 1898 | 1942 | 2114 |
| Phosphorus | ppm | ASTM D5185(m) | | 861 | 876 | 945 |
| Zinc | ppm | ASTM D5185(m) | | 1041 | 1031 | 1102 |
| Sulfur | ppm | ASTM D5185(m) | | 2925 | 2814 | 3020 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.6 | 14.7 | 15.3 |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 12.7 | 12.5 | 13.6 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0849252 **Received** : 03 Jul 2024
Lab Number : 02645143 **Tested** : 03 Jul 2024
Unique Number : 5802682 **Diagnosed** : 03 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.