



VOLVO

OIL ANALYSIS REPORT

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



Area

[2007]

Machine Id

VOLVO L90G 3117

Component

Transmission (Auto)

Fluid

VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP383159 | VCP396616 | VCP373551 |
| Sample Date | | Client Info | | 18 Jun 2024 | 17 Oct 2023 | 06 Dec 2022 |
| Machine Age | hrs | Client Info | | 13585 | 13160 | 12245 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| Iron | ppm | ASTM D5185m | >160 | 18 | 18 | 31 |
| Chromium | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >50 | 2 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >50 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >225 | 3 | 3 | 5 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

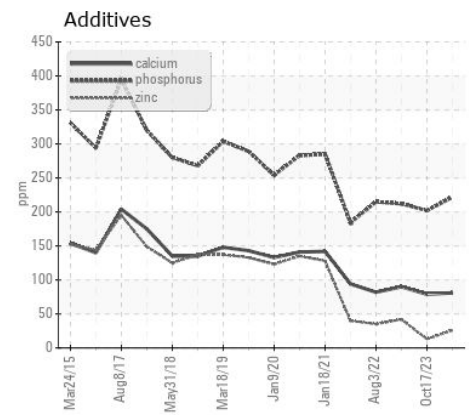
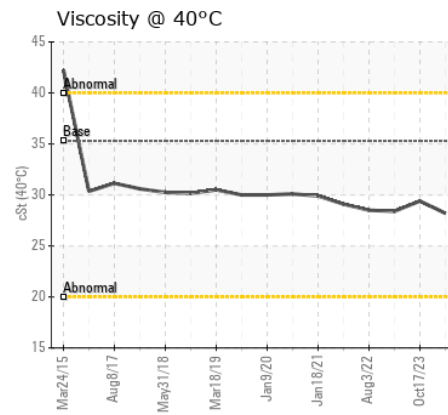
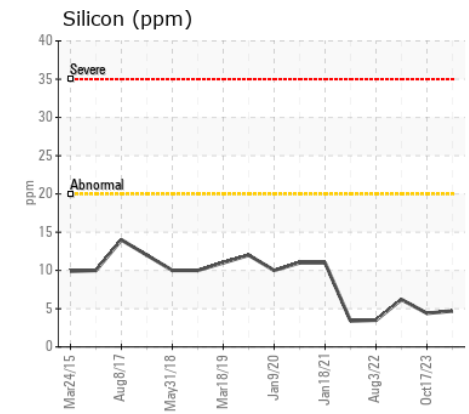
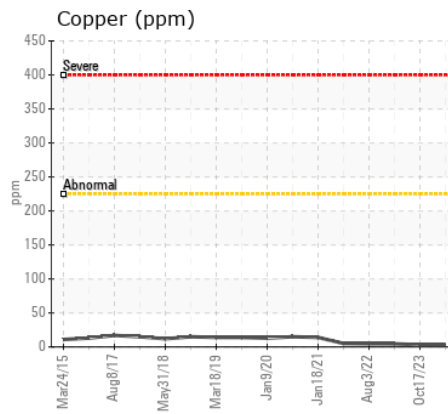
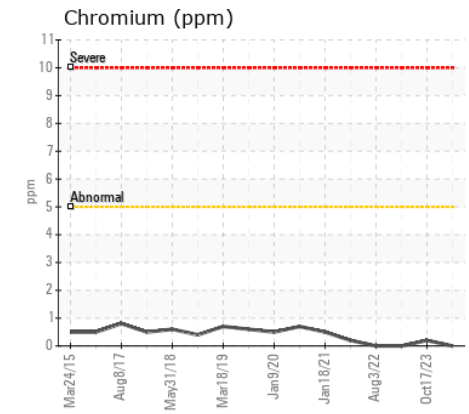
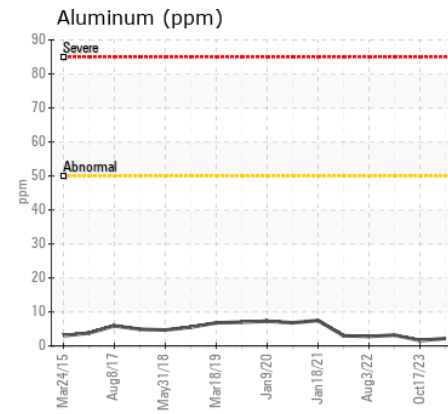
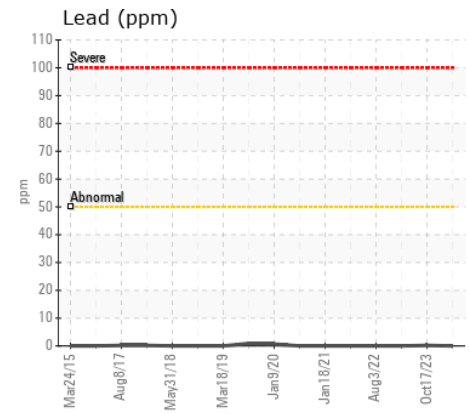
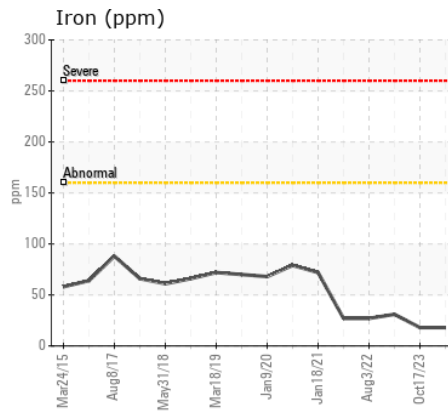
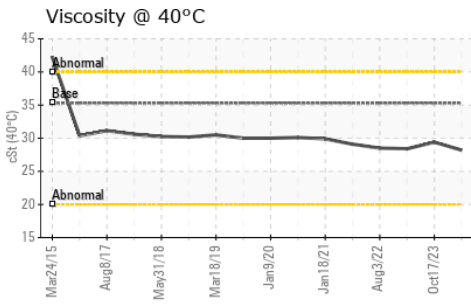
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >20 | 5 | 4 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 3 | 2 |
| Water | | WC Method | >0.1 | 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 5 | 0 | 7 |
| Boron | ppm | ASTM D5185m | 187 | 80 | 94 | 77 |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0.0 | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | 0.0 | 1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 6.8 | 1 | 2 | <1 |
| Calcium | ppm | ASTM D5185m | 215 | 81 | 79 | 90 |
| Phosphorus | ppm | ASTM D5185m | 445 | 222 | 202 | 212 |
| Zinc | ppm | ASTM D5185m | 56 | 26 | 13 | 42 |
| Sulfur | ppm | ASTM D5185m | 1336 | 2030 | 1915 | 1854 |
| Visc @ 40°C | cSt | ASTM D445 | 35.3 | 28.2 | 29.4 | 28.4 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP383159
Lab Number : 06221742
Unique Number : 11099939
Test Package : MOB 1

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

LEONARDS CONTRACTING
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)