



# VOLVO

## OIL ANALYSIS REPORT

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



Area

[2027]

Machine Id

**VOLVO L120H 633562**

Component

**Rear Axle**

Fluid

**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | VCP391332   | ---      | ---      |
| Sample Date    |     | Client Info |           | 17 Jun 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 530         | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 0           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Not Changed | ---      | ---      |
| Filter Changed |     | Client Info |           | Not Changed | ---      | ---      |
| Sample Status  |     |             |           | ABNORMAL    | ---      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >500 | 182  | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | 4    | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >30  | 1    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >50  | 0    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >120 | <1   | --- | --- |
| Tin          | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

### CONTAMINATION

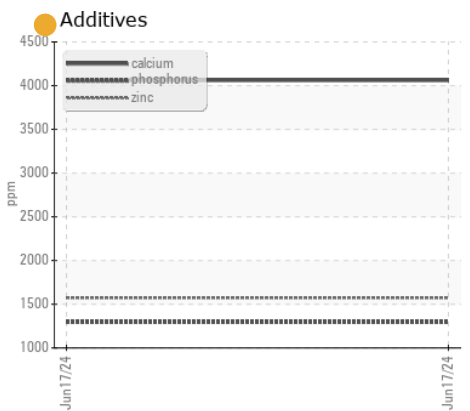
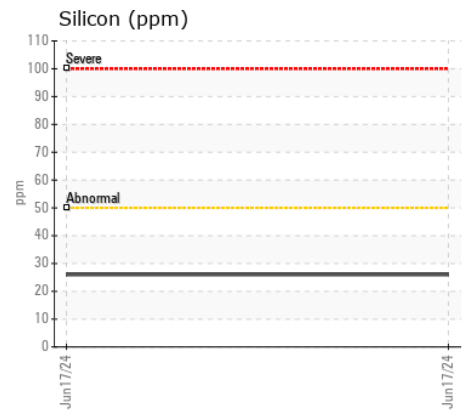
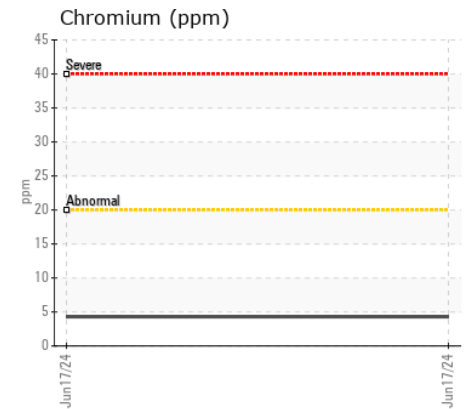
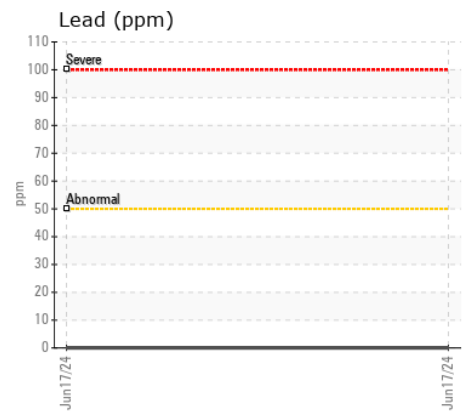
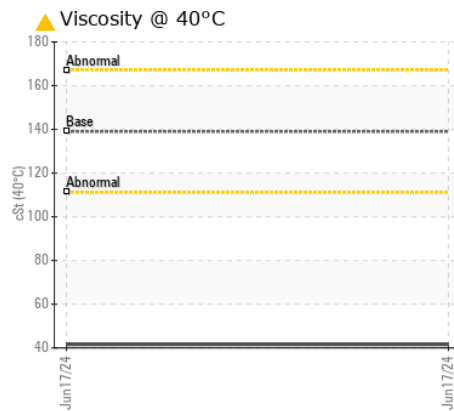
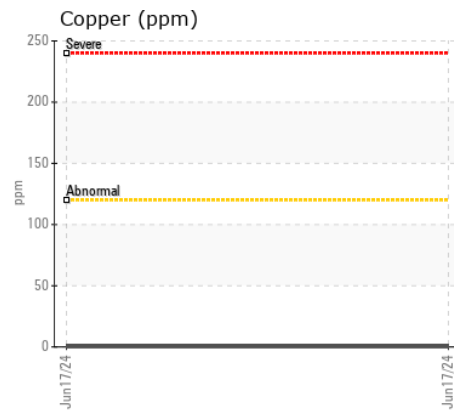
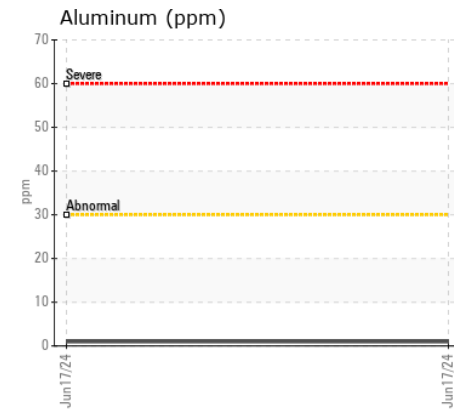
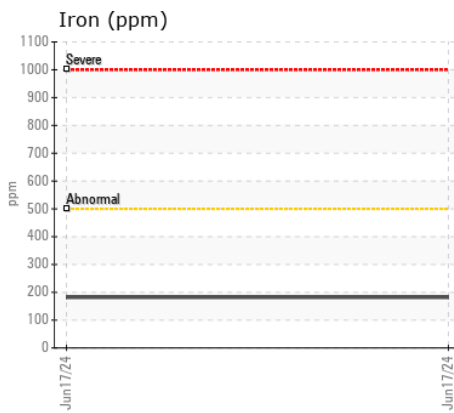
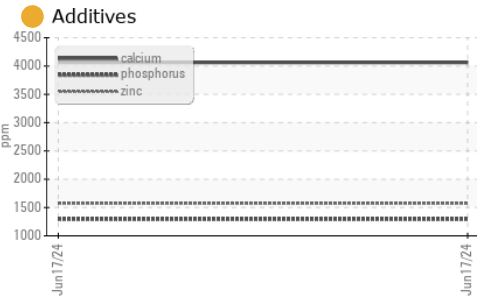
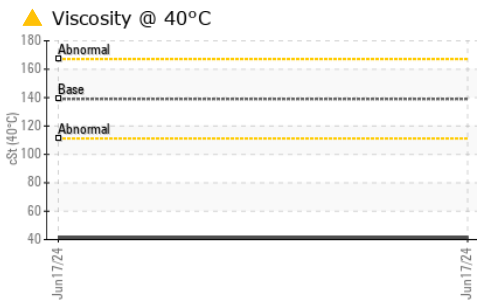
There is no indication of any contamination in the oil.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >50   | 26    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 1     | --- | --- |
| Water            |        | WC Method   | >0.2  | NEG   | --- | --- |
| 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 | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | NEG   | --- | --- |

### FLUID CONDITION

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

|             |     |             |       |      |     |     |
|-------------|-----|-------------|-------|------|-----|-----|
| Sodium      | ppm | ASTM D5185m |       | 3    | --- | --- |
| Boron       | ppm | ASTM D5185m | 379   | 121  | --- | --- |
| Barium      | ppm | ASTM D5185m | 0.0   | 0    | --- | --- |
| Molybdenum  | ppm | ASTM D5185m | 0.8   | 14   | --- | --- |
| Manganese   | ppm | ASTM D5185m | 0.0   | 13   | --- | --- |
| Magnesium   | ppm | ASTM D5185m | 31    | 15   | --- | --- |
| Calcium     | ppm | ASTM D5185m | 38    | 4061 | --- | --- |
| Phosphorus  | ppm | ASTM D5185m | 1077  | 1295 | --- | --- |
| Zinc        | ppm | ASTM D5185m | 46    | 1573 | --- | --- |
| Sulfur      | ppm | ASTM D5185m | 23526 | 4773 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   | 139   | 41.6 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP391332

Lab Number : 06221585

Unique Number : 11099782

Test Package : MOB 1

Received : 26 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 28 Jun 2024 - Jonathan Hester

LEONARDS CONTRACTING

30850 STEPHENSON HWY

MADISON HEIGHTS, MI

US 48071

Contact: LARRY SCHRADER

larry.schrader@sdevelop.com

T: (810)499-1953

F: x:

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)