



# CONSTRUCTION EQUIPMENT

## 567921 VOLVO L110H 631322 - FRONT AXLE



**Sample No:** VCP398031  
**Oil Type:** VOLVO WB 102  
**Job No:** 567921



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP398031</b>   | VCP385829   | VCP357261   | VCP329323   |
| Sample Date   | <b>01 Aug 2023</b> | 23 Sep 2022 | 25 Mar 2022 | 03 Sep 2021 |
| Machine Hours | <b>9947</b>        | 8782        | 7920        | 0           |
| Oil Hours     | <b>2000</b>        | 2000        | 2000        | 1500        |
| Oil Changed   | <b>Not Chngd</b>   | Changed     | Changed     | Not Chngd   |
| Sample Status | <b>ABNORMAL</b>    | NORMAL      | NORMAL      | NORMAL      |

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
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US 33619  
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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>42.8</b> | 39.3 | 39.5 | 40.8 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

|           |     |              |    |    |    |
|-----------|-----|--------------|----|----|----|
| Silicon   | ppm | <b>13</b>    | 13 | 13 | 13 |
| Sodium    | ppm | <b>0</b>     | 5  | 8  | 7  |
| Potassium | ppm | <b>&lt;1</b> | 2  | 0  | 0  |



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>27</b>    | 147 | 126 | 104 |
| Copper     | ppm | <b>&lt;1</b> | 3   | 3   | 2   |
| Lead       | ppm | <b>0</b>     | 0   | <1  | <1  |
| Tin        | ppm | <b>0</b>     | 0   | <1  | <1  |
| Aluminum   | ppm | <b>3</b>     | 1   | 1   | 1   |
| Chromium   | ppm | <b>&lt;1</b> | 2   | 2   | 2   |
| Molybdenum | ppm | <b>7</b>     | 2   | 2   | 2   |
| Nickel     | ppm | <b>&lt;1</b> | 0   | <1  | 0   |
| Titanium   | ppm | <b>0</b>     | <1  | <1  | <1  |
| Silver     | ppm | <b>0</b>     | 0   | <1  | <1  |
| Manganese  | ppm | <b>&lt;1</b> | 3   | 3   | 3   |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | <1  |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3933</b> | 4060 | 4146 | 4022 |
| Magnesium  | ppm | <b>33</b>   | 29   | 22   | 19   |
| Zinc       | ppm | <b>1560</b> | 1652 | 1701 | 1618 |
| Phosphorus | ppm | <b>1290</b> | 1330 | 1413 | 1301 |
| Barium     | ppm | <b>1</b>    | 1    | 0    | 0    |
| Boron      | ppm | <b>159</b>  | 128  | 123  | 140  |

T:  
F:

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** RIPTAM  
**Unique No:** 10602496  
**Signed:** Sean Felton  
**Report Date:** 14 Aug 2023



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## VOLVO GRAPHS

