



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 05632247 - FRONT AXLE



**Sample No:** VCP407353  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP407353</b>   | VCP407140   | VCP407666   | VCP281601   |
| Sample Date   | <b>16 Oct 2023</b> | 09 Aug 2023 | 17 May 2023 | 01 Feb 2023 |
| Machine Hours | <b>5396</b>        | 4793        | 4033        | 3086        |
| Oil Hours     | <b>0</b>           | 0           | 947         | 1044        |
| Oil Changed   | <b>Changed</b>     | Not Changd  | Not Changd  | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>42.8</b> | 42.6 | 42.9 | 50.7 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

|           |     |           |    |    |    |
|-----------|-----|-----------|----|----|----|
| Silicon   | ppm | <b>14</b> | 13 | 12 | 16 |
| Sodium    | ppm | <b>2</b>  | <1 | 2  | 3  |
| Potassium | ppm | <b>0</b>  | 0  | 2  | 2  |



### WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>77</b>    | 66 | 53 | 125 |
| Copper     | ppm | <b>&lt;1</b> | 0  | 0  | <1  |
| Lead       | ppm | <b>&lt;1</b> | <1 | <1 | 0   |
| Tin        | ppm | <b>&lt;1</b> | 0  | <1 | 0   |
| Aluminum   | ppm | <b>1</b>     | <1 | 1  | <1  |
| Chromium   | ppm | <b>2</b>     | 1  | 2  | 3   |
| Molybdenum | ppm | <b>&lt;1</b> | 2  | 3  | 5   |
| Nickel     | ppm | <b>&lt;1</b> | 0  | <1 | 0   |
| Titanium   | ppm | <b>&lt;1</b> | 0  | <1 | 0   |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0   |
| Manganese  | ppm | <b>3</b>     | 2  | 2  | 6   |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0   |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>4037</b> | 4110 | 4307 | 4092 |
| Magnesium  | ppm | <b>18</b>   | 19   | 27   | 13   |
| Zinc       | ppm | <b>1663</b> | 1677 | 1713 | 1621 |
| Phosphorus | ppm | <b>1309</b> | 1284 | 1305 | 1322 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>136</b>  | 144  | 130  | 147  |

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** CITMILCON  
**Unique No:** 10712188  
**Signed:** Wes Davis  
**Report Date:** 26 Oct 2023



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## GRAPHS

