



# CONSTRUCTION EQUIPMENT

600105 CRC VOLVO L120H 632093 - FRONT AXLE



**Sample No:** VCP05960852  
**Oil Type:** VOLVO WB 102  
**Job No:** 600105 CRC



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP05960852</b> | VCP363788   | VCP351806   | VCP298744   |
| Sample Date   | <b>31 Mar 2023</b> | 11 Oct 2022 | 18 Apr 2022 | 03 Dec 2021 |
| Machine Hours | <b>0</b>           | 16539       | 15363       | 0           |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>N/A</b>         | N/A         | Not Changd  | Not Changd  |
| Sample Status | <b>NORMAL</b>      | NORMAL      | ABNORMAL    | ABNORMAL    |

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## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>39.9</b> | 39.8 | 40.1 | 40.4 |
|-------------|-----|-------------|------|------|------|



## CONTAMINATION

|           |     |           |    |    |    |
|-----------|-----|-----------|----|----|----|
| Silicon   | ppm | <b>16</b> | 13 | 21 | 50 |
| Sodium    | ppm | <b>8</b>  | 5  | 8  | 14 |
| Potassium | ppm | <b>2</b>  | 2  | 2  | 0  |



## WEAR METALS

|            |     |              |     |       |        |
|------------|-----|--------------|-----|-------|--------|
| Iron       | ppm | <b>334</b>   | 238 | ▲ 562 | ▲ 1076 |
| Copper     | ppm | <b>&lt;1</b> | <1  | 2     | 3      |
| Lead       | ppm | <b>0</b>     | 0   | <1    | <1     |
| Tin        | ppm | <b>0</b>     | 0   | 0     | <1     |
| Aluminum   | ppm | <b>3</b>     | 2   | 2     | 4      |
| Chromium   | ppm | <b>4</b>     | 2   | 7     | 9      |
| Molybdenum | ppm | <b>&lt;1</b> | 4   | 11    | 14     |
| Nickel     | ppm | <b>2</b>     | 0   | 0     | 5      |
| Titanium   | ppm | <b>&lt;1</b> | <1  | <1    | <1     |
| Silver     | ppm | <b>0</b>     | 0   | 0     | <1     |
| Manganese  | ppm | <b>8</b>     | 6   | 17    | 27     |
| Vanadium   | ppm | <b>0</b>     | 0   | 0     | <1     |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3998</b> | 4045 | 4181 | 4397 |
| Magnesium  | ppm | <b>14</b>   | 12   | 15   | 17   |
| Zinc       | ppm | <b>1620</b> | 1638 | 1713 | 1535 |
| Phosphorus | ppm | <b>1293</b> | 1326 | 1370 | 1445 |
| Barium     | ppm | <b>1</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>137</b>  | 122  | 140  | 121  |

## 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:** VOLVO1271  
**Unique No:** 10662065  
**Signed:** Wes Davis  
**Report Date:** 27 Sep 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

