



# CONSTRUCTION EQUIPMENT

D27477 JANESVILLE VOLVO L70H 623025 - FRONT AXLE



**Sample No:** VCP381240  
**Oil Type:** MOBIL WB 102  
**Job No:** D27477 JANESVILLE



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP381240</b>   | VCP381304   | VCP395276   | VCP391319   |
| Sample Date   | <b>18 Jul 2023</b> | 17 May 2023 | 15 Mar 2023 | 14 Dec 2022 |
| Machine Hours | <b>7632</b>        | 7425        | 7200        | 6860        |
| Oil Hours     | <b>4000</b>        | 0           | 1500        | 1000        |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   | Not Chngd   |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>42.4</b> | 48.3 | 43.2 | 42.5 |
|-------------|-----|-------------|------|------|------|



## CONTAMINATION

|           |     |              |    |    |    |
|-----------|-----|--------------|----|----|----|
| Silicon   | ppm | <b>14</b>    | 12 | 20 | 14 |
| Sodium    | ppm | <b>6</b>     | 5  | 6  | 6  |
| Potassium | ppm | <b>&lt;1</b> | 0  | 0  | 0  |



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>30</b>    | 51 | 37 | 27 |
| Copper     | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Lead       | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Tin        | ppm | <b>0</b>     | 0  | <1 | 2  |
| Aluminum   | ppm | <b>3</b>     | <1 | 2  | 1  |
| Chromium   | ppm | <b>&lt;1</b> | <1 | 1  | <1 |
| Molybdenum | ppm | <b>1</b>     | <1 | 2  | 2  |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Titanium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Silver     | ppm | <b>&lt;1</b> | 0  | <1 | 0  |
| Manganese  | ppm | <b>2</b>     | 2  | 2  | 2  |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>4308</b> | 3771 | 4135 | 4213 |
| Magnesium  | ppm | <b>14</b>   | 16   | 18   | 19   |
| Zinc       | ppm | <b>1763</b> | 1633 | 1542 | 1598 |
| Phosphorus | ppm | <b>1416</b> | 1289 | 1218 | 1248 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>161</b>  | 126  | 132  | 136  |

## 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:** VOLVO0070  
**Unique No:** 10589805  
**Signed:** Wes Davis  
**Report Date:** 08 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

