



# CONSTRUCTION EQUIPMENT

SWA350493 VOLVO L70H 622505 - FRONT AXLE



**Sample No:** VCP427141  
**Oil Type:** VOLVO WB 102  
**Job No:** SWA350493



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP427141</b>   | VCP400978   | VCP350917   | VCP312623   |
| Sample Date   | <b>01 Sep 2023</b> | 18 May 2023 | 24 Jan 2022 | 08 Sep 2021 |
| Machine Hours | <b>11602</b>       | 11032       | 8355        | 7662        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>N/A</b>         | N/A         | N/A         | N/A         |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | ABNORMAL    |

## ALTA EQUIPMENT

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## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>43.1</b> | 41.8 | 40.0 | 44.7 |
|-------------|-----|-------------|------|------|------|



## CONTAMINATION

|           |     |           |    |    |   |
|-----------|-----|-----------|----|----|---|
| Silicon   | ppm | <b>14</b> | 17 | 9  | 7 |
| Sodium    | ppm | <b>9</b>  | 12 | 2  | 5 |
| Potassium | ppm | <b>0</b>  | 2  | <1 | 0 |



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>30</b>    | 28 | 19 | 11 |
| Copper     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Lead       | ppm | <b>0</b>     | <1 | 0  | <1 |
| Tin        | ppm | <b>0</b>     | <1 | 0  | 0  |
| Aluminum   | ppm | <b>2</b>     | <1 | <1 | <1 |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>0</b>     | <1 | <1 | <1 |
| Nickel     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | <1 |
| Manganese  | ppm | <b>&lt;1</b> | 1  | <1 | <1 |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>4241</b> | 4184 | 3948 | 3840 |
| Magnesium  | ppm | <b>20</b>   | 19   | 12   | 12   |
| Zinc       | ppm | <b>1700</b> | 1764 | 1418 | 1536 |
| Phosphorus | ppm | <b>1346</b> | 1400 | 1307 | 1233 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>141</b>  | 136  | 134  | 137  |

## 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:** VOLVO0142  
**Unique No:** 10635542  
**Signed:** Wes Davis  
**Report Date:** 08 Sep 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

