



# CONSTRUCTION EQUIPMENT

## 23843 VOLVO L350H 1048 - FRONT AXLE



**Sample No:** VCP426917  
**Oil Type:** VOLVO WB 102  
**Job No:** 23843



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP426917</b>   | VCP340392   | VCP343351   | VCP310790   |
| Sample Date   | <b>12 Aug 2023</b> | 25 Jun 2022 | 04 Nov 2021 | 05 Apr 2021 |
| Machine Hours | <b>9846</b>        | 6859        | 4460        | 2239        |
| Oil Hours     | <b>1000</b>        | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | N/A         | N/A         | N/A         |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>47.6</b> | 48.9 | 44.1 | 42.6 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

|           |     |           |    |    |   |
|-----------|-----|-----------|----|----|---|
| Silicon   | ppm | <b>17</b> | 17 | 12 | 9 |
| Sodium    | ppm | <b>4</b>  | 5  | 8  | 0 |
| Potassium | ppm | <b>0</b>  | 0  | <1 | 0 |



### WEAR METALS

|            |     |              |     |    |    |
|------------|-----|--------------|-----|----|----|
| Iron       | ppm | <b>325</b>   | 285 | <1 | 3  |
| Copper     | ppm | <b>4</b>     | 4   | <1 | 2  |
| Lead       | ppm | <b>0</b>     | <1  | <1 | <1 |
| Tin        | ppm | <b>&lt;1</b> | <1  | <1 | <1 |
| Aluminum   | ppm | <b>0</b>     | 2   | <1 | 0  |
| Chromium   | ppm | <b>1</b>     | <1  | <1 | 0  |
| Molybdenum | ppm | <b>0</b>     | 2   | 2  | 1  |
| Nickel     | ppm | <b>0</b>     | 0   | 0  | 0  |
| Titanium   | ppm | <b>0</b>     | <1  | 0  | <1 |
| Silver     | ppm | <b>0</b>     | 0   | <1 | 0  |
| Manganese  | ppm | <b>4</b>     | 3   | <1 | <1 |
| Vanadium   | ppm | <b>0</b>     | 0   | 0  | 0  |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3667</b> | 4006 | 3896 | 4132 |
| Magnesium  | ppm | <b>29</b>   | 31   | 37   | 27   |
| Zinc       | ppm | <b>1441</b> | 1523 | 1507 | 1549 |
| Phosphorus | ppm | <b>1184</b> | 1186 | 1219 | 1302 |
| Barium     | ppm | <b>0</b>    | <1   | 0    | 0    |
| Boron      | ppm | <b>124</b>  | 133  | 126  | 146  |

### 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:** VOLVO3387  
**Unique No:** 10608424  
**Signed:** Wes Davis  
**Report Date:** 21 Aug 2023



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## GRAPHS

