



# CONSTRUCTION EQUIPMENT

## A11676 VOLVO L70H 622711 - FRONT AXLE



**Sample No:** VCP442530  
**Oil Type:** MOBIL WB 102  
**Job No:** A11676



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP442530</b>   | VCP400350   | VCP317487   | VCP284131   |
| Sample Date   | <b>12 Dec 2023</b> | 08 Mar 2023 | 05 Jul 2021 | 13 Jul 2020 |
| Machine Hours | <b>4890</b>        | 4425        | 3010        | 2959        |
| Oil Hours     | <b>500</b>         | 1000        | 1000        | 0           |
| Oil Changed   | <b>Not Changd</b>  | Changed     | Not Changd  | N/A         |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>47.5</b> | 46.3 | 40.6 | 40.6 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

| Water     | %   | NEG          | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon   | ppm | <b>11</b>    | 13  | 10  | 12  |
| Sodium    | ppm | <b>1</b>     | 0   | 1   | 4   |
| Potassium | ppm | <b>&lt;1</b> | 2   | <1  | 0   |

### 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.



### WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>8</b>     | 13 | 22 | 14 |
| Copper     | ppm | <b>0</b>     | <1 | <1 | 0  |
| Lead       | ppm | <b>&lt;1</b> | 0  | <1 | <1 |
| Tin        | ppm | <b>&lt;1</b> | 0  | <1 | 0  |
| Aluminum   | ppm | <b>1</b>     | 3  | 0  | <1 |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>3</b>     | 4  | 2  | 2  |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Titanium   | ppm | <b>&lt;1</b> | 1  | <1 | <1 |
| Silver     | ppm | <b>0</b>     | 0  | <1 | <1 |
| Manganese  | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Vanadium   | ppm | <b>0</b>     | 0  | <1 | <1 |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3568</b> | 3840 | 4003 | 3813 |
| Magnesium  | ppm | <b>56</b>   | 55   | 25   | 26   |
| Zinc       | ppm | <b>1519</b> | 1530 | 1504 | 1515 |
| Phosphorus | ppm | <b>1261</b> | 1238 | 1346 | 1142 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>110</b>  | 110  | 251  | 118  |

**Depot:** JAAPHI  
**Unique No:** 10796939  
**Signed:** Wes Davis  
**Report Date:** 21 Dec 2023



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## GRAPHS

