



# CONSTRUCTION EQUIPMENT

## 3895 TIDE WATER VOLVO L120H 633107 - FRONT AXLE



**Sample No:** VCP411806  
**Oil Type:** VOLVO WB 102  
**Job No:** 3895 TIDE WATER



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP411806</b>   | VCP393207   | VCP388448   | VCP401359   |
| Sample Date   | <b>06 Dec 2023</b> | 05 Jun 2023 | 03 Feb 2023 | 18 Jan 2023 |
| Machine Hours | <b>6188</b>        | 4012        | 2562        | 2354        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>N/A</b>         | Changed     | Changed     | Not Changd  |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>59.6</b> | 46.9 | 42.5 | 42.8 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

| Water     | %   | NEG       | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon   | ppm | <b>6</b>  | 18  | 11  | 10  |
| Sodium    | ppm | <b>2</b>  | 2   | 1   | 0   |
| Potassium | ppm | <b>12</b> | 0   | 0   | 1   |

### 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>228</b>   | 64 | 48 | 39 |
| Copper     | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Lead       | ppm | <b>2</b>     | 0  | <1 | 0  |
| Tin        | ppm | <b>&lt;1</b> | <1 | <1 | 0  |
| Aluminum   | ppm | <b>3</b>     | 1  | <1 | <1 |
| Chromium   | ppm | <b>3</b>     | 1  | 1  | <1 |
| Molybdenum | ppm | <b>5</b>     | 1  | <1 | <1 |
| Nickel     | ppm | <b>3</b>     | <1 | <1 | 0  |
| Titanium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>3</b>     | 2  | 1  | 1  |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1637</b> | 4019 | 4055 | 3838 |
| Magnesium  | ppm | <b>30</b>   | 21   | 14   | 10   |
| Zinc       | ppm | <b>803</b>  | 1613 | 1618 | 1503 |
| Phosphorus | ppm | <b>623</b>  | 1262 | 1209 | 1202 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 1    |
| Boron      | ppm | <b>31</b>   | 132  | 140  | 135  |

**Depot:** VOLVO8882  
**Unique No:** 10780795  
**Signed:** Sean Felton  
**Report Date:** 14 Dec 2023



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## VOLVO GRAPHS

