



# CONSTRUCTION EQUIPMENT

SWA305088-10 VOLVO L220H 3195 - FRONT AXLE



**Sample No:** VCP419115  
**Oil Type:** VOLVO WB 102  
**Job No:** SWA305088-10



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP419115</b>   | VCP390234   | VCP328801   | VCP332102   |
| Sample Date   | <b>21 Aug 2023</b> | 01 Nov 2022 | 20 Jun 2022 | 04 Jan 2022 |
| Machine Hours | <b>10636</b>       | 8642        | 7036        | 6553        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 2000        |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | N/A         | Changed     |
| Sample Status | <b>ABNORMAL</b>    | NORMAL      | NORMAL      | NORMAL      |

**CALLANAN INDUSTRIES**  
 93 SULLIVAN RD  
 MONTICELLO, NY  
 US 12701  
 Contact: Service Manager



## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>43.7</b> | 41.7 | 42.1 | 39.4 |
|-------------|-----|-------------|------|------|------|

T:  
F:



## CONTAMINATION

|           |     |           |    |    |   |
|-----------|-----|-----------|----|----|---|
| Silicon   | ppm | <b>22</b> | 11 | 15 | 9 |
| Sodium    | ppm | <b>8</b>  | 7  | 8  | 6 |
| Potassium | ppm | <b>2</b>  | 0  | 5  | 0 |

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>82</b>    | 40 | 23 | 70 |
| Copper     | ppm | <b>&lt;1</b> | <1 | <1 | 3  |
| Lead       | ppm | <b>0</b>     | <1 | 1  | <1 |
| Tin        | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Aluminum   | ppm | <b>8</b>     | 3  | 2  | 2  |
| Chromium   | ppm | <b>2</b>     | <1 | <1 | 2  |
| Molybdenum | ppm | <b>0</b>     | <1 | <1 | <1 |
| Nickel     | ppm | <b>0</b>     | <1 | 0  | 0  |
| Titanium   | ppm | <b>&lt;1</b> | <1 | <1 | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>2</b>     | <1 | <1 | 2  |
| Vanadium   | ppm | <b>0</b>     | 0  | <1 | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3516</b> | 3445 | 3249 | 3569 |
| Magnesium  | ppm | <b>17</b>   | 15   | 14   | 12   |
| Zinc       | ppm | <b>1471</b> | 1472 | 1320 | 1454 |
| Phosphorus | ppm | <b>1164</b> | 1129 | 1094 | 1230 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>128</b>  | 120  | 115  | 113  |

**Depot:** CALMONNY  
**Unique No:** 10617675  
**Signed:** Sean Felton  
**Report Date:** 25 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

