



# CONSTRUCTION EQUIPMENT

STELLA-JONES 8-359967 VOLVO L90H 625390 - FRONT AXLE



**Sample No:** VCP381836  
**Oil Type:** VOLVO WB 102  
**Job No:** 8-359967



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP381836</b>   | VCP336005   | VCP280691   | VCP273366   |
| Sample Date   | <b>29 Mar 2023</b> | 16 Mar 2022 | 27 Apr 2021 | 24 Nov 2020 |
| Machine Hours | <b>8068</b>        | 6000        | 3985        | 2020        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

### STRONGCO EQUIPMENT INC.

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## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>43.1</b> | 41.0 | 40.6 | 39.9 |
|-------------|-----|-------------|------|------|------|



## CONTAMINATION

|           |     |           |   |    |    |
|-----------|-----|-----------|---|----|----|
| Silicon   | ppm | <b>16</b> | 8 | 12 | 16 |
| Sodium    | ppm | <b>5</b>  | 8 | 10 | 10 |
| Potassium | ppm | <b>1</b>  | 1 | 1  | 2  |



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>30</b>    | 29 | 34 | 38 |
| Copper     | ppm | <b>&lt;1</b> | 1  | <1 | <1 |
| Lead       | ppm | <b>0</b>     | 0  | <1 | 0  |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0  |
| Aluminum   | ppm | <b>3</b>     | 1  | 2  | 2  |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | 1  |
| Molybdenum | ppm | <b>&lt;1</b> | <1 | <1 | 2  |
| Nickel     | ppm | <b>0</b>     | <1 | <1 | <1 |
| Titanium   | ppm | <b>&lt;1</b> | 0  | <1 | <1 |
| Silver     | ppm | <b>0</b>     | 0  | 0  | <1 |
| Manganese  | ppm | <b>&lt;1</b> | <1 | 2  | 4  |
| Vanadium   | ppm | <b>0</b>     | 0  | <1 | <1 |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>4197</b> | 2295 | 3990 | 4295 |
| Magnesium  | ppm | <b>19</b>   | 12   | 17   | 17   |
| Zinc       | ppm | <b>1564</b> | 1108 | 1648 | 1695 |
| Phosphorus | ppm | <b>1373</b> | 990  | 1324 | 1346 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>115</b>  | 71   | 114  | 121  |

### 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:** SHEMIS  
**Unique No:** 5555701  
**Signed:** Wes Davis  
**Report Date:** 23 Oct 2023



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## VOLVO GRAPHS

