



# CONSTRUCTION EQUIPMENT

## SWA578656-10 VOLVO L220H 2824 - REAR AXLE



**Sample No:** VCP415514  
**Oil Type:** VOLVO WB 102  
**Job No:** SWA578656-10



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP415514</b>   | VCP432730   | VCP397115   | VCP411106   |
| Sample Date   | <b>05 Jun 2024</b> | 19 Aug 2023 | 16 May 2023 | 01 Mar 2023 |
| Machine Hours | <b>15172</b>       | 12965       | 12185       | 11698       |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   | Not Chngd   |
| Sample Status | <b>NORMAL</b>      | NORMAL      | ABNORMAL    | NORMAL      |

**CALLANAN**  
 RT 32 677 FLATBUSH RD  
 EAST KINGSTON, NY  
 US 12401  
 Contact:



### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>43.6</b> | 45.5 | 43.0 | 42.4 |
|-------------|-----|-------------|------|------|------|

T:  
F:



### CONTAMINATION

| Water     | %   | NEG          | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon   | ppm | <b>9</b>     | 13  | 17  | 17  |
| Sodium    | ppm | <b>2</b>     | 2   | 2   | 0   |
| Potassium | ppm | <b>&lt;1</b> | 0   | <1  | 2   |

### 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>55</b>    | 74 | 47 | 60 |
| Copper     | ppm | <b>&lt;1</b> | <1 | <1 | 0  |
| Lead       | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Tin        | ppm | <b>&lt;1</b> | <1 | <1 | 0  |
| Aluminum   | ppm | <b>1</b>     | 3  | <1 | 2  |
| Chromium   | ppm | <b>&lt;1</b> | 1  | 1  | 0  |
| Molybdenum | ppm | <b>1</b>     | <1 | <1 | 0  |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Titanium   | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Silver     | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Manganese  | ppm | <b>&lt;1</b> | 2  | <1 | 0  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>2898</b> | 3911 | 4211 | 3878 |
| Magnesium  | ppm | <b>24</b>   | 21   | 17   | 15   |
| Zinc       | ppm | <b>1267</b> | 1557 | 1696 | 1526 |
| Phosphorus | ppm | <b>1078</b> | 1229 | 1314 | 1224 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | <1   |
| Boron      | ppm | <b>93</b>   | 148  | 143  | 130  |

**Depot:** CALEAS  
**Unique No:** 11074405  
**Signed:** Wes Davis  
**Report Date:** 13 Jun 2024



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## VOLVO GRAPHS

