



# CONSTRUCTION EQUIPMENT

## 9594 VOLVO L90G 3163 - FRONT AXLE



**Sample No:** VCP416477  
**Oil Type:** VOLVO WB 102  
**Job No:** 9594



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP416477</b>   | VCP360340   | VCP242044   | VCP218987   |
| Sample Date   | <b>15 Sep 2023</b> | 20 May 2022 | 14 Mar 2019 | 24 May 2018 |
| Machine Hours | <b>16208</b>       | 14701       | 12114       | 10637       |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | ABNORMAL    | ATTENTION   | ABNORMAL    |

**IAA - INSURANCE AUTO AUCTIONS - BALTIMORE**  
 3131 HAWKINS POINT RD  
 BALTIMORE, MD  
 US 21226  
 Contact: Service Manager

### OIL CONDITION

|             |     |             |      |         |      |
|-------------|-----|-------------|------|---------|------|
| Visc @ 40°C | cSt | <b>43.5</b> | 43.0 | ▲ 133.0 | 40.6 |
|-------------|-----|-------------|------|---------|------|

T:  
F:

### CONTAMINATION

|           |     |              |   |    |      |
|-----------|-----|--------------|---|----|------|
| Silicon   | ppm | <b>9</b>     | 8 | 9  | ▲ 53 |
| Sodium    | ppm | <b>2</b>     | 1 | <1 | 1    |
| Potassium | ppm | <b>&lt;1</b> | 0 | 0  | 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 component. The condition of the oil is acceptable for the time in service.

### WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>13</b>    | 11 | 16 | 126 |
| Copper     | ppm | <b>&lt;1</b> | <1 | <1 | 2   |
| Lead       | ppm | <b>0</b>     | <1 | 0  | 0   |
| Tin        | ppm | <b>0</b>     | <1 | 0  | 0   |
| Aluminum   | ppm | <b>&lt;1</b> | <1 | 0  | 3   |
| Chromium   | ppm | <b>0</b>     | <1 | <1 | 1   |
| Molybdenum | ppm | <b>3</b>     | <1 | <1 | 0   |
| Nickel     | ppm | <b>0</b>     | 0  | <1 | 0   |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | <1  |
| Silver     | ppm | <b>0</b>     | <1 | 0  | 0   |
| Manganese  | ppm | <b>&lt;1</b> | <1 | <1 | 1   |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0   |

### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1807</b> | 2004 | 2995 | 2426 |
| Magnesium  | ppm | <b>39</b>   | 15   | 6    | 9    |
| Zinc       | ppm | <b>944</b>  | 961  | 1315 | 1076 |
| Phosphorus | ppm | <b>751</b>  | 790  | 916  | 866  |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>77</b>   | 72   | 85   | 68   |

**Depot:** IAABAL  
**Unique No:** 10657932  
**Signed:** Angela Borella  
**Report Date:** 22 Sep 2023



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## VOLVO GRAPHS

