



# CONSTRUCTION EQUIPMENT

SW1025005 IAA VOLVO L90H 623449 - REAR AXLE



**Sample No:** VCP423047  
**Oil Type:** VOLVO WB 102  
**Job No:** SW1025005 IAA



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP423047</b>   | VCP353807   | VCP277918   | VCP252633   |
| Sample Date   | <b>10 Oct 2023</b> | 12 Sep 2022 | 22 Jun 2020 | 18 Sep 2019 |
| Machine Hours | <b>13824</b>       | 12845       | 10127       | 8324        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | N/A         |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>43.4</b> | 39.6 | 39.8 | 42.2 |
|-------------|-----|-------------|------|------|------|



## CONTAMINATION

|           |     |           |    |    |    |
|-----------|-----|-----------|----|----|----|
| Silicon   | ppm | <b>11</b> | 12 | 16 | 16 |
| Sodium    | ppm | <b>5</b>  | 6  | 7  | 9  |
| Potassium | ppm | <b>2</b>  | 0  | 7  | 5  |

## 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>25</b>    | 38 | 55 | 23 |
| Copper     | ppm | <b>37</b>    | 3  | 6  | 4  |
| Lead       | ppm | <b>&lt;1</b> | <1 | <1 | 0  |
| Tin        | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Aluminum   | ppm | <b>1</b>     | 1  | 2  | <1 |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>0</b>     | <1 | 0  | <1 |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 1  | <1 |
| Titanium   | ppm | <b>0</b>     | <1 | 2  | <1 |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>1</b>     | <1 | <1 | 1  |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3327</b> | 3450 | 4105 | 4345 |
| Magnesium  | ppm | <b>13</b>   | 14   | 16   | 18   |
| Zinc       | ppm | <b>1590</b> | 1431 | 1659 | 1669 |
| Phosphorus | ppm | <b>1317</b> | 1186 | 1376 | 1294 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>104</b>  | 137  | 122  | 126  |

**Depot:** VOLVO6174  
**Unique No:** 10699408  
**Signed:** Wes Davis  
**Report Date:** 18 Oct 2023

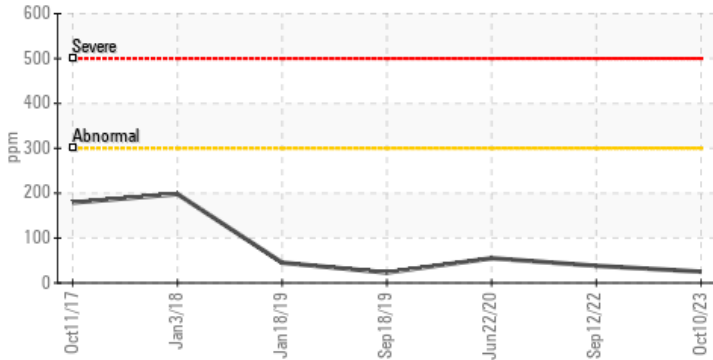


# CONSTRUCTION EQUIPMENT

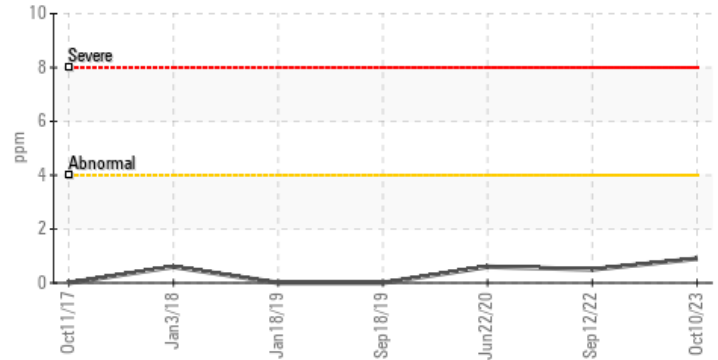


## GRAPHS

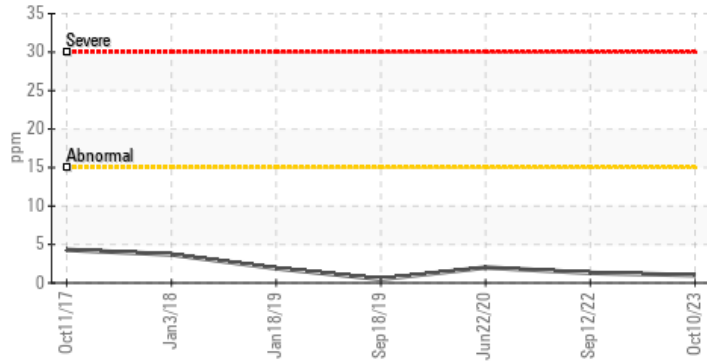
### Iron (ppm)



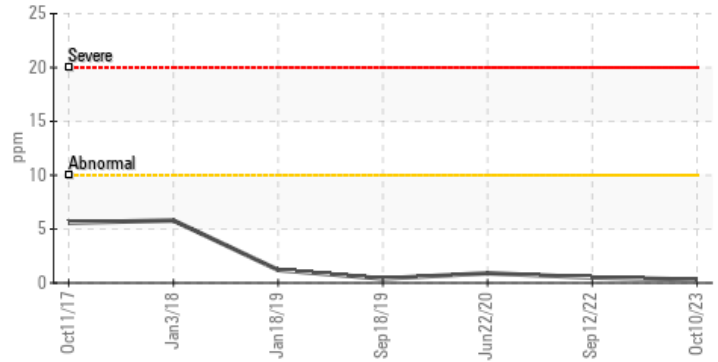
### Lead (ppm)



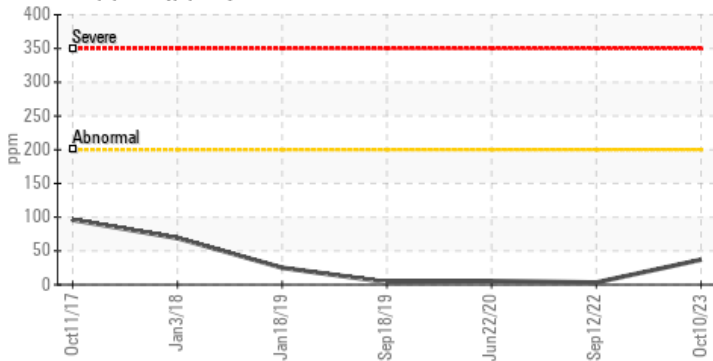
### Aluminum (ppm)



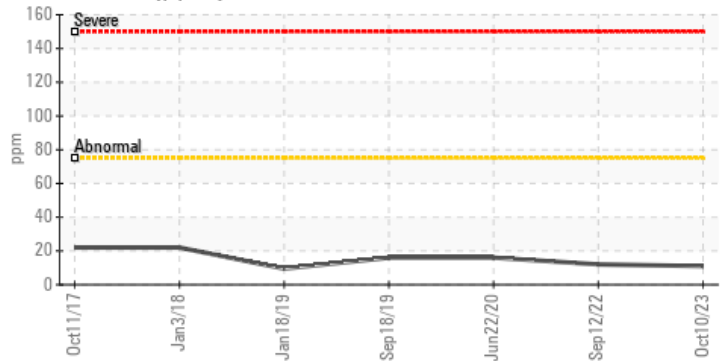
### Chromium (ppm)



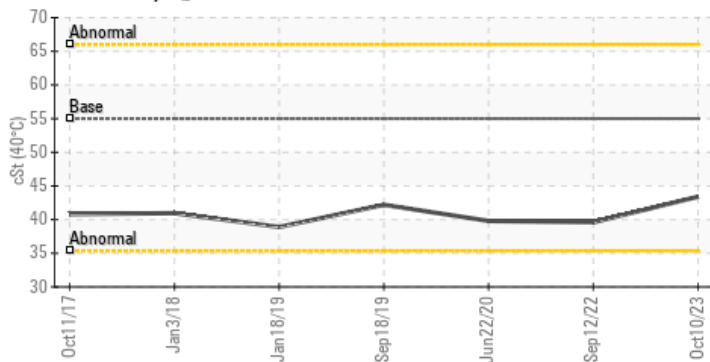
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

