



# CONSTRUCTION EQUIPMENT

## D13107 WM A1 VOLVO L70H 624717 - TRANSMISSION (AUTO)



**Sample No:** VCP193638  
**Oil Type:** VOLVO AT 102  
**Job No:** D13107 WM A1



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP193638</b>   | VCP429533   | VCP418997   | VCP418957   |
| Sample Date   | <b>11 Dec 2023</b> | 19 Oct 2023 | 11 Sep 2023 | 04 Aug 2023 |
| Machine Hours | <b>3591</b>        | 3224        | 2966        | 2770        |
| Oil Hours     | <b>3591</b>        | 3224        | 396         | 2770        |
| Oil Changed   | <b>Not Changd</b>  | Not Changd  | Changed     | Not Changd  |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>25.6</b> | 27.2 | 27.3 | 27.2 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

| Water     | %   | NEG       | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon   | ppm | <b>10</b> | 9   | 10  | 8   |
| Sodium    | ppm | <b>5</b>  | 4   | 6   | <1  |
| Potassium | ppm | <b>0</b>  | 1   | 1   | 0   |

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>81</b>    | 78 | 80 | 74 |
| Copper     | ppm | <b>12</b>    | 11 | 11 | 7  |
| Lead       | ppm | <b>0</b>     | 0  | 0  | 0  |
| Tin        | ppm | <b>0</b>     | 0  | <1 | 0  |
| Aluminum   | ppm | <b>&lt;1</b> | 1  | 2  | <1 |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Nickel     | ppm | <b>0</b>     | 0  | <1 | 0  |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>8</b>     | 8  | 8  | 7  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



### ADDITIVES

|            |     |            |     |     |     |
|------------|-----|------------|-----|-----|-----|
| Calcium    | ppm | <b>82</b>  | 84  | 89  | 82  |
| Magnesium  | ppm | <b>1</b>   | 2   | 5   | 1   |
| Zinc       | ppm | <b>26</b>  | 35  | 31  | 0   |
| Phosphorus | ppm | <b>196</b> | 187 | 212 | 196 |
| Barium     | ppm | <b>0</b>   | <1  | 1   | 0   |
| Boron      | ppm | <b>62</b>  | 63  | 71  | 68  |

**Depot:** VOLVO0069  
**Unique No:** 10791656  
**Signed:** Wes Davis  
**Report Date:** 18 Dec 2023



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## GRAPHS

