



# CONSTRUCTION EQUIPMENT

## 376822 17-7049 - TRANSMISSION (AUTO)



**Sample No:** VCP429965  
**Oil Type:** VOLVO AT 102  
**Job No:** 376822



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP429965</b>   | VCP251340   | VCP221534   | VCF423920   |
| Sample Date   | <b>14 Sep 2023</b> | 02 Sep 2020 | 28 Aug 2018 | 06 Jul 2011 |
| Machine Hours | <b>18113</b>       | 14265       | 11800       | 4108        |
| Oil Hours     | <b>2000</b>        | 0           | 0           | 1338        |
| Oil Changed   | <b>Changed</b>     | Changed     | N/A         | Changed     |
| Sample Status | <b>NORMAL</b>      | ABNORMAL    | NORMAL      | ATTENTION   |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>28.6</b> | 26.5 | 27.0 | 22.5 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

|           |     |          |    |    |    |
|-----------|-----|----------|----|----|----|
| Silicon   | ppm | <b>3</b> | 3  | 3  | 2  |
| Sodium    | ppm | <b>2</b> | 6  | <1 | 2  |
| Potassium | ppm | <b>4</b> | 10 | 0  | <1 |



### WEAR METALS

|            |     |              |      |     |       |
|------------|-----|--------------|------|-----|-------|
| Iron       | ppm | <b>8</b>     | 30   | 8   | 17    |
| Copper     | ppm | <b>20</b>    | 444  | 227 | ▲ 310 |
| Lead       | ppm | <b>&lt;1</b> | 18   | 6   | ▲ 23  |
| Tin        | ppm | <b>1</b>     | ▲ 24 | 11  | 12    |
| Aluminum   | ppm | <b>4</b>     | 11   | 5   | 9     |
| Chromium   | ppm | <b>0</b>     | <1   | 0   | <1    |
| Molybdenum | ppm | <b>0</b>     | <1   | <1  | 2     |
| Nickel     | ppm | <b>1</b>     | <1   | <1  | <1    |
| Titanium   | ppm | <b>0</b>     | 0    | 0   | 0     |
| Silver     | ppm | <b>0</b>     | <1   | 0   | 0     |
| Manganese  | ppm | <b>0</b>     | <1   | <1  | <1    |
| Vanadium   | ppm | <b>0</b>     | 0    | 0   | 0     |



### ADDITIVES

|            |     |            |     |     |     |
|------------|-----|------------|-----|-----|-----|
| Calcium    | ppm | <b>73</b>  | 97  | 111 | 65  |
| Magnesium  | ppm | <b>1</b>   | <1  | 1   | <1  |
| Zinc       | ppm | <b>6</b>   | 13  | 24  | 16  |
| Phosphorus | ppm | <b>213</b> | 173 | 195 | 296 |
| Barium     | ppm | <b>0</b>   | 0   | 0   | 0   |
| Boron      | ppm | <b>86</b>  | 70  | 88  | 125 |

### 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.

**Depot:** HOLCON  
**Unique No:** 5644260  
**Signed:** Wes Davis  
**Report Date:** 18 Sep 2023



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## VOLVO GRAPHS

