



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352449 - TRANSMISSION (AUTO)



**Sample No:** VCP449684  
**Oil Type:** VOLVO AUTOMATIC TRANSMISSION FLUID AT102  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP449684</b>   | VCP455454   | VCP335488   | VCP411072   |
| Sample Date   | <b>18 Jun 2024</b> | 02 May 2024 | 25 Oct 2023 | 16 Aug 2023 |
| Machine Hours | <b>8146</b>        | 8038        | 7451        | 7072        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   | Not Chngd   |
| Sample Status | <b>ABNORMAL</b>    | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>28.4</b> | 28.3 | 28.5 | 28.4 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

|           |     |              |     |     |     |
|-----------|-----|--------------|-----|-----|-----|
| Water     | %   | <b>0.097</b> | NEG | NEG | NEG |
| Silicon   | ppm | <b>5</b>     | 4   | 3   | 3   |
| Sodium    | ppm | <b>4</b>     | 4   | 3   | 2   |
| Potassium | ppm | <b>2</b>     | 2   | <1  | 0   |

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

|            |     |           |    |    |    |
|------------|-----|-----------|----|----|----|
| Iron       | ppm | <b>27</b> | 15 | 8  | 7  |
| Copper     | ppm | <b>15</b> | 12 | 12 | <1 |
| Lead       | ppm | <b>0</b>  | 2  | 0  | 0  |
| Tin        | ppm | <b>2</b>  | 4  | 1  | 0  |
| Aluminum   | ppm | <b>7</b>  | 7  | 4  | <1 |
| Chromium   | ppm | <b>0</b>  | <1 | 0  | 0  |
| Molybdenum | ppm | <b>0</b>  | <1 | 0  | 0  |
| Nickel     | ppm | <b>1</b>  | 2  | 1  | 0  |
| Titanium   | ppm | <b>0</b>  | <1 | 0  | 0  |
| Silver     | ppm | <b>0</b>  | <1 | <1 | 0  |
| Manganese  | ppm | <b>1</b>  | 1  | <1 | <1 |
| Vanadium   | ppm | <b>0</b>  | 0  | 0  | 0  |



### ADDITIVES

|            |     |            |     |     |     |
|------------|-----|------------|-----|-----|-----|
| Calcium    | ppm | <b>128</b> | 79  | 68  | 74  |
| Magnesium  | ppm | <b>2</b>   | 0   | 12  | 0   |
| Zinc       | ppm | <b>27</b>  | 4   | 0   | 0   |
| Phosphorus | ppm | <b>222</b> | 208 | 188 | 203 |
| Barium     | ppm | <b>0</b>   | 0   | 0   | 0   |
| Boron      | ppm | <b>82</b>  | 85  | 95  | 96  |

**Depot:** VOLVO0090  
**Unique No:** 11099938  
**Signed:** Don Baldrige  
**Report Date:** 28 Jun 2024



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## VOLVO GRAPHS

