



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 35323 - TRANSMISSION (AUTO)



**Sample No:** VCP437710  
**Oil Type:** VOLVO AUTOMATIC TRANSMISSION FLUID AT102  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP437710</b>   | VCP435532   | VCP401236   | --- |
| Sample Date   | <b>12 Apr 2024</b> | 06 Jan 2024 | 30 Aug 2023 | --- |
| Machine Hours | <b>2288</b>        | 1771        | 1291        | --- |
| Oil Hours     | <b>0</b>           | 0           | 0           | --- |
| Oil Changed   | <b>Changed</b>     | Not Changd  | Not Changd  | --- |
| Sample Status | <b>ABNORMAL</b>    | NORMAL      | NORMAL      | --- |

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### OIL CONDITION

|             |     |             |       |      |     |
|-------------|-----|-------------|-------|------|-----|
| Visc @ 40°C | cSt | <b>28.1</b> | 27.87 | 27.9 | --- |
|-------------|-----|-------------|-------|------|-----|



### CONTAMINATION

| Water     | %   | NEG       | NEG | NEG | --- |
|-----------|-----|-----------|-----|-----|-----|
| Silicon   | ppm | <b>15</b> | 16  | 16  | --- |
| Sodium    | ppm | <b>5</b>  | 4   | 4   | --- |
| Potassium | ppm | <b>4</b>  | 4   | 2   | --- |



### WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>31</b>    | 35 | 28 | --- |
| Copper     | ppm | <b>17</b>    | 20 | 16 | --- |
| Lead       | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Tin        | ppm | <b>3</b>     | 2  | 2  | --- |
| Aluminum   | ppm | <b>14</b>    | 13 | 12 | --- |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | --- |
| Molybdenum | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Nickel     | ppm | <b>2</b>     | <1 | 1  | --- |
| Titanium   | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Silver     | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Manganese  | ppm | <b>2</b>     | 2  | 3  | --- |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | --- |



### ADDITIVES

|            |     |            |     |     |     |
|------------|-----|------------|-----|-----|-----|
| Calcium    | ppm | <b>78</b>  | 76  | 74  | --- |
| Magnesium  | ppm | <b>2</b>   | 0   | 2   | --- |
| Zinc       | ppm | <b>3</b>   | 0   | 0   | --- |
| Phosphorus | ppm | <b>194</b> | 232 | 192 | --- |
| Barium     | ppm | <b>0</b>   | 0   | 0   | --- |
| Boron      | ppm | <b>76</b>  | 99  | 89  | --- |

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. High concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.

**Depot:** VOLVO0090  
**Unique No:** 10990436  
**Signed:** Jonathan Hester  
**Report Date:** 24 Apr 2024



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## GRAPHS

