



# CONSTRUCTION EQUIPMENT

SWO-066609 VOLVO A45G 352916 - DROP BOX



**Sample No:** VCP435121  
**Oil Type:** GEAR OIL SAE 90  
**Job No:** SWO-066609



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP435121</b>   | VCP405828   | VCP369306   | VCP419138   |
| Sample Date   | <b>11 Oct 2023</b> | 05 Sep 2023 | 07 Aug 2023 | 25 Jul 2023 |
| Machine Hours | <b>3517</b>        | 3285        | 3113        | 3005        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Changed     | Not Chngd   |
| Sample Status | <b>NORMAL</b>      | NORMAL      | ABNORMAL    | ABNORMAL    |

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## OIL CONDITION

|             |     |            |     |      |      |
|-------------|-----|------------|-----|------|------|
| Visc @ 40°C | cSt | <b>109</b> | 107 | 44.5 | 44.0 |
|-------------|-----|------------|-----|------|------|



## CONTAMINATION

|           |     |           |    |    |    |
|-----------|-----|-----------|----|----|----|
| Silicon   | ppm | <b>11</b> | 10 | 35 | 41 |
| Sodium    | ppm | <b>4</b>  | 3  | 4  | 10 |
| Potassium | ppm | <b>0</b>  | <1 | 4  | 2  |



## WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>346</b>   | 305 | 798 | 776 |
| Copper     | ppm | <b>5</b>     | 4   | 15  | 13  |
| Lead       | ppm | <b>0</b>     | 0   | <1  | 0   |
| Tin        | ppm | <b>&lt;1</b> | 0   | 0   | 0   |
| Aluminum   | ppm | <b>0</b>     | <1  | 1   | 1   |
| Chromium   | ppm | <b>4</b>     | 4   | 5   | 6   |
| Molybdenum | ppm | <b>4</b>     | 3   | 4   | 4   |
| Nickel     | ppm | <b>&lt;1</b> | 1   | 2   | 2   |
| Titanium   | ppm | <b>0</b>     | 0   | 0   | 0   |
| Silver     | ppm | <b>0</b>     | 0   | 0   | 0   |
| Manganese  | ppm | <b>6</b>     | 5   | 14  | 14  |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | 0   |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>42</b>   | 43   | 53   | 53   |
| Magnesium  | ppm | <b>30</b>   | 20   | 3    | <1   |
| Zinc       | ppm | <b>67</b>   | 74   | 83   | 82   |
| Phosphorus | ppm | <b>1080</b> | 1163 | 2050 | 2151 |
| Barium     | ppm | <b>0</b>    | 0    | 2    | 0    |
| Boron      | ppm | <b>70</b>   | 74   | 60   | 63   |

## Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.

**Depot:** SAIBIR  
**Unique No:** 10698767  
**Signed:** Sean Felton  
**Report Date:** 19 Oct 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

