



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342539 - BOGIE/CENTER AXLE



**Sample No:** VCP0007576

**Oil Type:** GEAR OIL SAE 80W140

**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP0007576</b>  | VCP331672   | VCP305448   | VCP276331   |
| Sample Date   | <b>06 Jul 2023</b> | 01 Dec 2021 | 15 Mar 2021 | 05 May 2020 |
| Machine Hours | <b>0</b>           | 4272        | 3145        | 1920        |
| Oil Hours     | <b>0</b>           | 2000        | 1000        | 1920        |
| Oil Changed   | <b>N/A</b>         | Changed     | Not Changd  | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | ATTENTION   |

**QGS - QUALITY GRASSES SERV/TCF LEASING**  
 17502 CR 672  
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### OIL CONDITION

|             |     |            |     |     |        |
|-------------|-----|------------|-----|-----|--------|
| Visc @ 40°C | cSt | <b>286</b> | 256 | 275 | ▲ 51.0 |
|-------------|-----|------------|-----|-----|--------|



### CONTAMINATION

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

### Diagnosis

Resample at the next service interval to monitor. 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.



### WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>6</b>     | 45 | 55 | 254 |
| Copper     | ppm | <b>0</b>     | <1 | 3  | 3   |
| Lead       | ppm | <b>0</b>     | 0  | <1 | 0   |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0   |
| Aluminum   | ppm | <b>0</b>     | 1  | 0  | <1  |
| Chromium   | ppm | <b>0</b>     | <1 | <1 | 3   |
| Molybdenum | ppm | <b>9</b>     | 2  | 2  | 7   |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | <1  |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0   |
| Silver     | ppm | <b>&lt;1</b> | 0  | 0  | 0   |
| Manganese  | ppm | <b>0</b>     | 1  | 1  | 6   |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0   |



### ADDITIVES

|            |     |            |      |     |      |
|------------|-----|------------|------|-----|------|
| Calcium    | ppm | <b>119</b> | 346  | 409 | 90   |
| Magnesium  | ppm | <b>37</b>  | 10   | 11  | 0    |
| Zinc       | ppm | <b>91</b>  | 178  | 193 | 51   |
| Phosphorus | ppm | <b>966</b> | 1061 | 984 | 2150 |
| Barium     | ppm | <b>0</b>   | 0    | 0   | 0    |
| Boron      | ppm | <b>208</b> | 140  | 154 | 172  |

**Depot:** QUALITFL  
**Unique No:** 10549883  
**Signed:** Sean Felton  
**Report Date:** 11 Jul 2023



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## GRAPHS

