



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352341 - FRONT AXLE



**Sample No:** VCP419460  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP419460</b>   | VCP348919   | --- | --- |
| Sample Date   | <b>30 Jun 2023</b> | 26 Jan 2022 | --- | --- |
| Machine Hours | <b>4913</b>        | 2505        | --- | --- |
| Oil Hours     | <b>0</b>           | 0           | --- | --- |
| Oil Changed   | <b>Changed</b>     | Not Changd  | --- | --- |
| Sample Status | <b>ABNORMAL</b>    | NORMAL      | --- | --- |

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### OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>260</b> | 265 | --- | --- |
|-------------|-----|------------|-----|-----|-----|



### CONTAMINATION

|           |     |              |    |     |     |
|-----------|-----|--------------|----|-----|-----|
| Silicon   | ppm | <b>4</b>     | 4  | --- | --- |
| Sodium    | ppm | <b>&lt;1</b> | 3  | --- | --- |
| Potassium | ppm | <b>3</b>     | <1 | --- | --- |



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>37</b>    | 209 | --- | --- |
| Copper     | ppm | <b>2</b>     | 22  | --- | --- |
| Lead       | ppm | <b>0</b>     | 0   | --- | --- |
| Tin        | ppm | <b>&lt;1</b> | 0   | --- | --- |
| Aluminum   | ppm | <b>0</b>     | 6   | --- | --- |
| Chromium   | ppm | <b>&lt;1</b> | 33  | --- | --- |
| Molybdenum | ppm | <b>12</b>    | 5   | --- | --- |
| Nickel     | ppm | <b>0</b>     | <1  | --- | --- |
| Titanium   | ppm | <b>0</b>     | <1  | --- | --- |
| Silver     | ppm | <b>0</b>     | 0   | --- | --- |
| Manganese  | ppm | <b>1</b>     | 6   | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | --- | --- |



### ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>179</b>  | 159  | --- | --- |
| Magnesium  | ppm | <b>51</b>   | 26   | --- | --- |
| Zinc       | ppm | <b>119</b>  | 88   | --- | --- |
| Phosphorus | ppm | <b>1044</b> | 1007 | --- | --- |
| Barium     | ppm | <b>0</b>    | 0    | --- | --- |
| Boron      | ppm | <b>198</b>  | 188  | --- | --- |

### Diagnosis

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

**Depot:** VOLVO0090  
**Unique No:** 10547474  
**Signed:** Don Baldrige  
**Report Date:** 08 Jul 2023



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## GRAPHS

