



# CONSTRUCTION EQUIPMENT

SWA288432 VOLVO A45G 352411 - FRONT AXLE



**Sample No:** VCP427067  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SWA288432



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP427067</b>   | VCP377162   | VCP317696   | VCP295115   |
| Sample Date   | <b>19 Jun 2023</b> | 30 Apr 2022 | 17 Jul 2021 | 05 Dec 2020 |
| Machine Hours | <b>5591</b>        | 3478        | 2213        | 1400        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Not Chngd   | Not Chngd   | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

**ORANGE COUNTY SOLID WASTE**  
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## OIL CONDITION

|             |     |            |     |     |      |
|-------------|-----|------------|-----|-----|------|
| Visc @ 40°C | cSt | <b>278</b> | 282 | 284 | 50.3 |
|-------------|-----|------------|-----|-----|------|



## CONTAMINATION

|           |     |          |   |    |    |
|-----------|-----|----------|---|----|----|
| Silicon   | ppm | <b>2</b> | 2 | 2  | <1 |
| Sodium    | ppm | <b>1</b> | 1 | <1 | 2  |
| Potassium | ppm | <b>2</b> | 2 | 2  | 22 |

## 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>135</b>   | 87 | 78 | 315 |
| Copper     | ppm | <b>3</b>     | 2  | <1 | 2   |
| Lead       | ppm | <b>0</b>     | <1 | <1 | 2   |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0   |
| Aluminum   | ppm | <b>0</b>     | <1 | 0  | <1  |
| Chromium   | ppm | <b>2</b>     | 1  | 1  | 5   |
| Molybdenum | ppm | <b>2</b>     | 2  | 2  | 3   |
| Nickel     | ppm | <b>&lt;1</b> | <1 | <1 | <1  |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0   |
| Silver     | ppm | <b>0</b>     | <1 | 5  | <1  |
| Manganese  | ppm | <b>7</b>     | 5  | 4  | 13  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0   |



## ADDITIVES

|            |     |             |      |     |      |
|------------|-----|-------------|------|-----|------|
| Calcium    | ppm | <b>103</b>  | 63   | 39  | 105  |
| Magnesium  | ppm | <b>7</b>    | 7    | 8   | 2    |
| Zinc       | ppm | <b>63</b>   | 47   | 32  | 49   |
| Phosphorus | ppm | <b>1001</b> | 1029 | 966 | 2307 |
| Barium     | ppm | <b>0</b>    | 0    | 0   | <1   |
| Boron      | ppm | <b>88</b>   | 166  | 243 | 176  |

**Depot:** ORAORL  
**Unique No:** 10536419  
**Signed:** Wes Davis  
**Report Date:** 02 Jul 2023



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## GRAPHS

