



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342175 - FRONT AXLE



**Sample No:** VCP407843  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP407843</b>   | VCP386802   | VCP332925   | VCP337014   |
| Sample Date   | <b>16 Jun 2023</b> | 15 Sep 2022 | 01 Mar 2022 | 30 Aug 2021 |
| Machine Hours | <b>9340</b>        | 8071        | 7189        | 6287        |
| Oil Hours     | <b>0</b>           | 500         | 1500        | 2000        |
| Oil Changed   | <b>Not Chngd</b>   | Changed     | Not Chngd   | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

**RIPA AND ASSOCIATES**  
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### OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>270</b> | 295 | 296 | 275 |
|-------------|-----|------------|-----|-----|-----|

### CONTAMINATION

|           |     |              |    |   |    |
|-----------|-----|--------------|----|---|----|
| Silicon   | ppm | <b>3</b>     | 2  | 2 | 2  |
| Sodium    | ppm | <b>&lt;1</b> | 0  | 0 | <1 |
| Potassium | ppm | <b>0</b>     | <1 | 1 | 16 |

**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>37</b>    | 36 | 54 | 41 |
| Copper     | ppm | <b>0</b>     | <1 | <1 | <1 |
| Lead       | ppm | <b>0</b>     | 0  | <1 | 0  |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0  |
| Aluminum   | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>8</b>     | 4  | 3  | <1 |
| Nickel     | ppm | <b>0</b>     | 0  | 0  | <1 |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 2  | 0  |
| Manganese  | ppm | <b>0</b>     | 1  | 1  | 1  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |

### ADDITIVES

|            |     |            |     |      |     |
|------------|-----|------------|-----|------|-----|
| Calcium    | ppm | <b>192</b> | 122 | 92   | 135 |
| Magnesium  | ppm | <b>56</b>  | 26  | 25   | 3   |
| Zinc       | ppm | <b>133</b> | 62  | 49   | 61  |
| Phosphorus | ppm | <b>996</b> | 922 | 1017 | 934 |
| Barium     | ppm | <b>0</b>   | 0   | 0    | 0   |
| Boron      | ppm | <b>181</b> | 158 | 179  | 176 |

**Depot:** RIPTAM  
**Unique No:** 10552325  
**Signed:** Don Baldrige  
**Report Date:** 13 Jul 2023



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## VOLVO GRAPHS

