



# CONSTRUCTION EQUIPMENT

443773 VOLVO A40G 342315 - FRONT AXLE



**Sample No:** VCP441070  
**Oil Type:** GEAR OIL SAE 85W140  
**Job No:** 443773



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP441070</b>   | VCP329513   | VCP311946   | VCP301942   |
| Sample Date   | <b>01 Feb 2024</b> | 15 Dec 2021 | 02 Aug 2021 | 26 Mar 2021 |
| Machine Hours | <b>7233</b>        | 3976        | 3212        | 3215        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | N/A         | Changed     | Not Changd  |
| Sample Status | <b>ATTENTION</b>   | ATTENTION   | ATTENTION   | ABNORMAL    |

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## OIL CONDITION

|             |     |              |       |       |       |
|-------------|-----|--------------|-------|-------|-------|
| Visc @ 40°C | cSt | <b>▲ 126</b> | ▲ 125 | ▲ 342 | ■ 130 |
|-------------|-----|--------------|-------|-------|-------|



## CONTAMINATION

| Water     | %   | NEG        | NEG  | NEG | NEG |
|-----------|-----|------------|------|-----|-----|
| Silicon   | ppm | ■ <b>1</b> | ■ 4  | ■ 0 | ■ 1 |
| Sodium    | ppm | ■ <b>0</b> | ■ <1 | ■ 0 | ■ 0 |
| Potassium | ppm | ■ <b>2</b> | ■ 0  | ■ 0 | ■ 9 |



## WEAR METALS

|            |     |                |       |     |      |
|------------|-----|----------------|-------|-----|------|
| Iron       | ppm | ■ <b>158</b>   | ■ 276 | ■ 0 | ■ 15 |
| Copper     | ppm | ■ <b>&lt;1</b> | ■ 1   | ■ 0 | ■ <1 |
| Lead       | ppm | ■ <b>0</b>     | ■ 0   | ■ 0 | ■ 1  |
| Tin        | ppm | ■ <b>&lt;1</b> | ■ 0   | ■ 0 | ■ 0  |
| Aluminum   | ppm | ■ <b>0</b>     | ■ <1  | ■ 0 | ■ <1 |
| Chromium   | ppm | ■ <b>2</b>     | ■ 4   | ■ 0 | ■ <1 |
| Molybdenum | ppm | ■ <b>7</b>     | ■ 9   | ■ 0 | ■ 6  |
| Nickel     | ppm | ■ <b>0</b>     | ■ 0   | ■ 0 | ■ <1 |
| Titanium   | ppm | <b>0</b>       | 0     | 0   | 0    |
| Silver     | ppm | <b>0</b>       | 0     | <1  | 0    |
| Manganese  | ppm | ■ <b>3</b>     | ■ 4   | ■ 0 | ■ <1 |
| Vanadium   | ppm | <b>0</b>       | 0     | 0   | 0    |



## ADDITIVES

|            |     |              |        |       |       |
|------------|-----|--------------|--------|-------|-------|
| Calcium    | ppm | ■ <b>149</b> | ■ 150  | ■ <1  | ■ 119 |
| Magnesium  | ppm | <b>27</b>    | ■ 35   | ■ 0   | ■ 23  |
| Zinc       | ppm | ■ <b>93</b>  | ■ 84   | ■ 0   | ■ 67  |
| Phosphorus | ppm | ■ <b>951</b> | ■ 1004 | ■ 974 | ■ 855 |
| Barium     | ppm | ■ <b>2</b>   | ■ 0    | ■ 0   | ■ 0   |
| Boron      | ppm | ■ <b>161</b> | ■ 184  | ■ 225 | ■ 159 |

## 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. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.

**Depot:** VOLVO0090  
**Unique No:** 10871387  
**Signed:** Don Baldrige  
**Report Date:** 11 Feb 2024



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## GRAPHS

