



# CONSTRUCTION EQUIPMENT

SW0071894 VOLVO A30G 753219 - REAR AXLE



**Sample No:** VCP441719  
**Oil Type:** COWIN 80W90  
**Job No:** SW0071894



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP441719</b>   | VCP427191   | VCP412718   | VCP345739   |
| Sample Date   | <b>09 May 2024</b> | 23 Jan 2024 | 13 Sep 2023 | 12 Jun 2023 |
| Machine Hours | <b>2028</b>        | 1500        | 1000        | 500         |
| Oil Hours     | <b>0</b>           | 1500        | 1000        | 500         |
| Oil Changed   | <b>Changed</b>     | Not Changd  | Not Changd  | Not Changd  |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>85.5</b> | 85.1 | 85.6 | 85.8 |
|-------------|-----|-------------|------|------|------|



## CONTAMINATION

| Water     | %   | NEG      | NEG | NEG | NEG |
|-----------|-----|----------|-----|-----|-----|
| Silicon   | ppm | <b>5</b> | 5   | 4   | 5   |
| Sodium    | ppm | <b>2</b> | 1   | 2   | 3   |
| Potassium | ppm | <b>3</b> | 4   | 2   | 5   |

## 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>226</b>   | 497 | 214 | 176 |
| Copper     | ppm | <b>24</b>    | 21  | 17  | 11  |
| Lead       | ppm | <b>0</b>     | 0   | 0   | 0   |
| Tin        | ppm | <b>1</b>     | 1   | <1  | <1  |
| Aluminum   | ppm | <b>&lt;1</b> | 0   | <1  | 0   |
| Chromium   | ppm | <b>4</b>     | 8   | 4   | 4   |
| Molybdenum | ppm | <b>4</b>     | 6   | 3   | 5   |
| Nickel     | ppm | <b>&lt;1</b> | 2   | <1  | 2   |
| Titanium   | ppm | <b>0</b>     | 0   | 0   | 0   |
| Silver     | ppm | <b>0</b>     | 0   | 0   | 0   |
| Manganese  | ppm | <b>9</b>     | 13  | 8   | 8   |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | <1  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1047</b> | 982  | 983  | 1094 |
| Magnesium  | ppm | <b>3</b>    | 3    | 6    | 6    |
| Zinc       | ppm | <b>437</b>  | 431  | 413  | 472  |
| Phosphorus | ppm | <b>1343</b> | 1382 | 1271 | 1324 |
| Barium     | ppm | <b>2</b>    | 6    | 4    | 5    |
| Boron      | ppm | <b>250</b>  | 249  | 219  | 251  |

**Depot:** SANMILFL  
**Unique No:** 11023578  
**Signed:** Wes Davis  
**Report Date:** 14 May 2024



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## GRAPHS

