



# CONSTRUCTION EQUIPMENT

## VOLVO A60H 340099 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP429500  
**Oil Type:** GEAR OIL LS 80W90  
**Job No:**



### SAMPLE INFORMATION

| Sample Number | VCP429500   | VCP429385   | VCP416652   | VCP410295   |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date   | 23 Jan 2024 | 11 Oct 2023 | 18 Jul 2023 | 27 Mar 2023 |
| Machine Hours | 8489        | 7982        | 7491        | 7019        |
| Oil Hours     | 0           | 0           | 0           | 0           |
| Oil Changed   | Not Chngd   | Not Chngd   | Not Chngd   | Changed     |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

| Visc @ 40°C | cSt | 260 | 260 | 260 | 137 |
|-------------|-----|-----|-----|-----|-----|
|             |     |     |     |     |     |



### CONTAMINATION

| Water     | %   | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon   | ppm | 3   | 3   | 3   | 2   |
| Sodium    | ppm | 2   | 2   | 0   | 3   |
| Potassium | ppm | 1   | 0   | 0   | <1  |

**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 | 9  | 7  | 8  | 33 |
| Copper     | ppm | 0  | <1 | 0  | <1 |
| Lead       | ppm | 0  | 0  | 0  | 0  |
| Tin        | ppm | <1 | 0  | 0  | 0  |
| Aluminum   | ppm | 0  | 0  | 0  | <1 |
| Chromium   | ppm | 0  | 0  | <1 | 1  |
| Molybdenum | ppm | 3  | 4  | 5  | 3  |
| Nickel     | ppm | <1 | 0  | 0  | <1 |
| Titanium   | ppm | 0  | 0  | 0  | 0  |
| Silver     | ppm | 0  | 0  | <1 | 0  |
| Manganese  | ppm | <1 | <1 | 0  | 2  |
| Vanadium   | ppm | 0  | 0  | 0  | 0  |



### ADDITIVES

|            |     |     |     |      |     |
|------------|-----|-----|-----|------|-----|
| Calcium    | ppm | 166 | 165 | 193  | 722 |
| Magnesium  | ppm | 31  | 42  | 35   | 15  |
| Zinc       | ppm | 94  | 84  | 108  | 331 |
| Phosphorus | ppm | 854 | 913 | 1019 | 988 |
| Barium     | ppm | 1   | 0   | 0    | 0   |
| Boron      | ppm | 164 | 159 | 194  | 136 |

**Depot:** SAIBIR  
**Unique No:** 10848646  
**Signed:** Sean Felton  
**Report Date:** 30 Jan 2024



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## GRAPHS

