



# CONSTRUCTION EQUIPMENT

## SWO-071204 VOLVO A40G 340716 - BOGIE/CENTER AXLE



**Sample No:** VCP449760  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SWO-071204



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP449760</b>   | VCP432348   | VCP369302   | VCP402273   |
| Sample Date   | <b>18 Apr 2024</b> | 05 Dec 2023 | 30 Aug 2023 | 26 Apr 2023 |
| Machine Hours | <b>9946</b>        | 9440        | 8929        | 8381        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Not Changd  | Not Changd  | Not Changd  |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>298</b> | 294 | 293 | 294 |
|-------------|-----|------------|-----|-----|-----|



### CONTAMINATION

| Water     | %   | NEG      | NEG | NEG | NEG |
|-----------|-----|----------|-----|-----|-----|
| Silicon   | ppm | <b>2</b> | 3   | 2   | 1   |
| Sodium    | ppm | <b>0</b> | 0   | <1  | 0   |
| Potassium | ppm | <b>0</b> | <1  | 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 | <b>17</b>    | 16 | 13 | 8  |
| Copper     | ppm | <b>&lt;1</b> | <1 | 0  | <1 |
| Lead       | ppm | <b>0</b>     | 0  | 0  | 0  |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0  |
| Aluminum   | ppm | <b>&lt;1</b> | 1  | <1 | 0  |
| Chromium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Molybdenum | ppm | <b>3</b>     | 5  | 3  | 4  |
| Nickel     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Titanium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>&lt;1</b> | 0  | <1 | 0  |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |



### ADDITIVES

|            |     |            |      |      |     |
|------------|-----|------------|------|------|-----|
| Calcium    | ppm | <b>130</b> | 166  | 137  | 139 |
| Magnesium  | ppm | <b>30</b>  | 46   | 38   | 33  |
| Zinc       | ppm | <b>76</b>  | 100  | 85   | 91  |
| Phosphorus | ppm | <b>836</b> | 1282 | 1012 | 996 |
| Barium     | ppm | <b>0</b>   | 0    | 0    | 0   |
| Boron      | ppm | <b>159</b> | 218  | 190  | 184 |

**Depot:** SAIBIR  
**Unique No:** 10991817  
**Signed:** Don Baldrige  
**Report Date:** 24 Apr 2024



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## VOLVO GRAPHS

