



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342660 - REAR AXLE



**Sample No:** VCP0007791  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP0007791</b>  | VCP417666   | --- | --- |
| Sample Date   | <b>29 Mar 2024</b> | 16 Aug 2023 | --- | --- |
| Machine Hours | <b>5381</b>        | 4876        | --- | --- |
| Oil Hours     | <b>5381</b>        | 1000        | --- | --- |
| Oil Changed   | <b>N/A</b>         | Not Changd  | --- | --- |
| Sample Status | <b>ATTENTION</b>   | ATTENTION   | --- | --- |

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

|             |     |             |      |     |     |
|-------------|-----|-------------|------|-----|-----|
| Visc @ 40°C | cSt | <b>66.3</b> | 65.6 | --- | --- |
|-------------|-----|-------------|------|-----|-----|



### CONTAMINATION

| Water     | %   | NEG      | NEG | --- | --- |
|-----------|-----|----------|-----|-----|-----|
| Silicon   | ppm | <b>6</b> | 7   | --- | --- |
| Sodium    | ppm | <b>2</b> | 2   | --- | --- |
| Potassium | ppm | <b>3</b> | 2   | --- | --- |



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>97</b>    | 226 | --- | --- |
| Copper     | ppm | <b>6</b>     | 0   | --- | --- |
| Lead       | ppm | <b>0</b>     | 0   | --- | --- |
| Tin        | ppm | <b>&lt;1</b> | 0   | --- | --- |
| Aluminum   | ppm | <b>&lt;1</b> | <1  | --- | --- |
| Chromium   | ppm | <b>2</b>     | 4   | --- | --- |
| Molybdenum | ppm | <b>61</b>    | 66  | --- | --- |
| Nickel     | ppm | <b>0</b>     | <1  | --- | --- |
| Titanium   | ppm | <b>0</b>     | 0   | --- | --- |
| Silver     | ppm | <b>0</b>     | 0   | --- | --- |
| Manganese  | ppm | <b>4</b>     | 7   | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | --- | --- |



### ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>993</b>  | 1109 | --- | --- |
| Magnesium  | ppm | <b>773</b>  | 844  | --- | --- |
| Zinc       | ppm | <b>1052</b> | 1117 | --- | --- |
| Phosphorus | ppm | <b>1166</b> | 1184 | --- | --- |
| Barium     | ppm | <b>0</b>    | 0    | --- | --- |
| Boron      | ppm | <b>152</b>  | 106  | --- | --- |

### 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** VOLVO0092  
**Unique No:** 10962584  
**Signed:** Sean Felton  
**Report Date:** 05 Apr 2024



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## GRAPHS

