



# CONSTRUCTION EQUIPMENT

VFS VOLVO A40G 342633 - BOGIE/CENTER AXLE



**Sample No:** VCP446943  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** VFS



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP446943   | --- | --- | --- |
| Sample Date   | 29 Apr 2024 | --- | --- | --- |
| Machine Hours | 8195        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Not Chngd   | --- | --- | --- |
| Sample Status | ATTENTION   | --- | --- | --- |

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## OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 49.9 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



## CONTAMINATION

|           |     |      |     |     |     |
|-----------|-----|------|-----|-----|-----|
| Water     | %   | NEG  | --- | --- | --- |
| Silicon   | ppm | ■ 11 | --- | --- | --- |
| Sodium    | ppm | ■ 2  | --- | --- | --- |
| Potassium | ppm | ■ 2  | --- | --- | --- |



## WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | ■ 161 | --- | --- | --- |
| Copper     | ppm | ■ 2   | --- | --- | --- |
| Lead       | ppm | ■ <1  | --- | --- | --- |
| Tin        | ppm | ■ <1  | --- | --- | --- |
| Aluminum   | ppm | ■ 2   | --- | --- | --- |
| Chromium   | ppm | ■ 2   | --- | --- | --- |
| Molybdenum | ppm | ■ 8   | --- | --- | --- |
| Nickel     | ppm | ■ 1   | --- | --- | --- |
| Titanium   | ppm | <1    | --- | --- | --- |
| Silver     | ppm | 0     | --- | --- | --- |
| Manganese  | ppm | ■ 3   | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |



## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 72   | --- | --- | --- |
| Magnesium  | ppm | ■ 15   | --- | --- | --- |
| Zinc       | ppm | ■ 55   | --- | --- | --- |
| Phosphorus | ppm | ■ 2066 | --- | --- | --- |
| Barium     | ppm | ■ 0    | --- | --- | --- |
| Boron      | ppm | ■ 54   | --- | --- | --- |

## 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:** VOLVO0081  
**Unique No:** 11017773  
**Signed:** Don Baldrige  
**Report Date:** 09 May 2024



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## GRAPHS

