



# CONSTRUCTION EQUIPMENT

RS0036083 VOLVO A25G 752018 - REAR AXLE



**Sample No:** VCP4708631

**Oil Type:** COWIN 80W90

**Job No:** RS0036083



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP4708631  | --- | --- | --- |
| Sample Date   | 28 Nov 2023 | --- | --- | --- |
| Machine Hours | 3150        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | SEVERE      | --- | --- | --- |

### COWIN EQUIPMENT COMPANY

7950 PITTMAN AVE  
PENSACOLA, FL  
US 32534

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## OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ▲ 82.6 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



## CONTAMINATION

|           |     |         |     |     |     |
|-----------|-----|---------|-----|-----|-----|
| Water     | %   | ▲ 0.389 | --- | --- | --- |
| Silicon   | ppm | ■ 1629  | --- | --- | --- |
| Sodium    | ppm | ■ 10    | --- | --- | --- |
| Potassium | ppm | ■ 32    | --- | --- | --- |



## WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | ■ 823 | --- | --- | --- |
| Copper     | ppm | ▲ 211 | --- | --- | --- |
| Lead       | ppm | ■ 3   | --- | --- | --- |
| Tin        | ppm | ■ 10  | --- | --- | --- |
| Aluminum   | ppm | ▲ 259 | --- | --- | --- |
| Chromium   | ppm | ■ 10  | --- | --- | --- |
| Molybdenum | ppm | 72    | --- | --- | --- |
| Nickel     | ppm | ■ 14  | --- | --- | --- |
| Titanium   | ppm | ■ 19  | --- | --- | --- |
| Silver     | ppm | 1     | --- | --- | --- |
| Manganese  | ppm | 11    | --- | --- | --- |
| Vanadium   | ppm | 2     | --- | --- | --- |



## ADDITIVES

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 479 | --- | --- | --- |
| Magnesium  | ppm | 132 | --- | --- | --- |
| Zinc       | ppm | 277 | --- | --- | --- |
| Phosphorus | ppm | 893 | --- | --- | --- |
| Barium     | ppm | 0   | --- | --- | --- |
| Boron      | ppm | 158 | --- | --- | --- |

## Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The copper level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The oil viscosity is lower than normal. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLV08247  
**Unique No:** 10769931  
**Signed:** Sean Felton  
**Report Date:** 07 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

