



# CONSTRUCTION EQUIPMENT

319697 GREG COCORAN VOLVO EC200EL 310161 - DIESEL ENGINE



**Sample No:** VCP368542  
**Oil Type:** {unknown}  
**Job No:** 319697 GREG COCORAN



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP368542   | --- | --- | --- |
| Sample Date   | 27 Mar 2024 | --- | --- | --- |
| Machine Hours | 4344        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

**PACWEST MACHINERY**  
8207 SOUTH 216TH STREET  
KENT, WA  
US 98032  
Contact: CHRIS COPELAND  
ccopeland@pacwestmachinery.com  
T: (800)935-5933  
F: (509)534-5286



## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 14.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.5 | --- | --- | --- |
| Oxidation (PA)   | %        | 52     | --- | --- | --- |

## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. Fuel content negligible. The BN result indicates that there is suitable alkalinity remaining in the oil.



## CONTAMINATION

|                |     |        |     |     |     |
|----------------|-----|--------|-----|-----|-----|
| Water          | %   | NEG    | --- | --- | --- |
| Soot %         | %   | █ 0.1  | --- | --- | --- |
| Nitration (PA) | %   | 47     | --- | --- | --- |
| Sulfation (PA) | %   | 50     | --- | --- | --- |
| Glycol         | %   | ▲ 0.06 | --- | --- | --- |
| Fuel           | %   | █ 0.8  | --- | --- | --- |
| Silicon        | ppm | █ 12   | --- | --- | --- |
| Sodium         | ppm | ▲ 403  | --- | --- | --- |
| Potassium      | ppm | ▲ 72   | --- | --- | --- |



## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 17 | --- | --- | --- |
| Copper     | ppm | █ 2  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 3  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 68 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | <1   | --- | --- | --- |
| Vanadium   | ppm | <1   | --- | --- | --- |



## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1193 | --- | --- | --- |
| Magnesium  | ppm | █ 948  | --- | --- | --- |
| Zinc       | ppm | █ 1292 | --- | --- | --- |
| Phosphorus | ppm | █ 1119 | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 34   | --- | --- | --- |

**Depot:** VOLVO1271  
**Unique No:** 10978450  
**Signed:** Jonathan Hester  
**Report Date:** 19 Apr 2024



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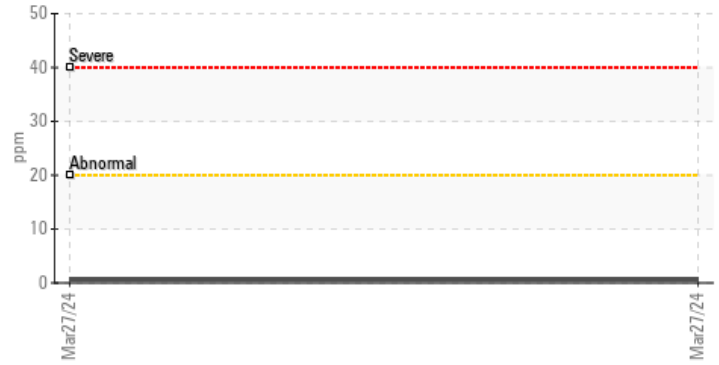


## GRAPHS

### Iron (ppm)



### Lead (ppm)



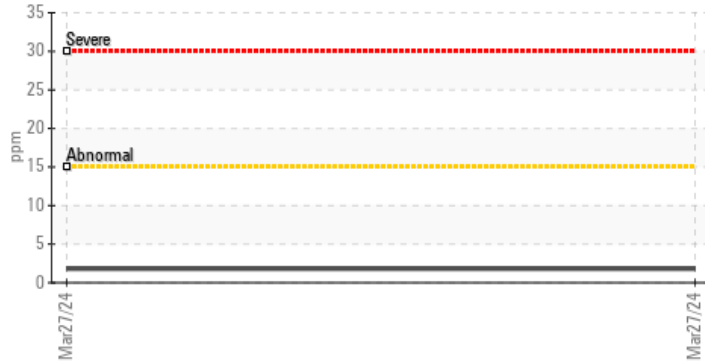
### Aluminum (ppm)



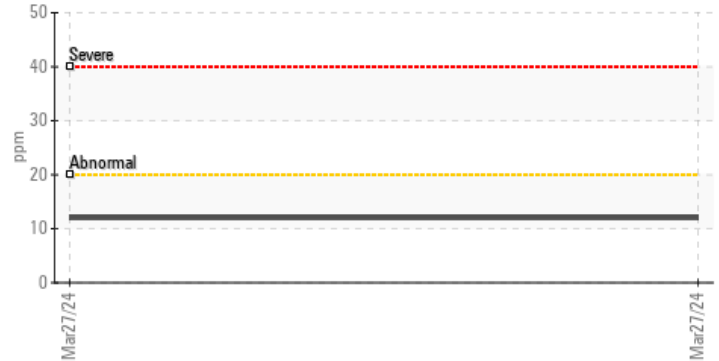
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

