



# CONSTRUCTION EQUIPMENT

8000190069 VOLVO EC250EL 310118 - SWING DRIVE



**Sample No:** VCP231812  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 8000190069



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP231812   | --- | --- | --- |
| Sample Date   | 05 Mar 2019 | --- | --- | --- |
| Machine Hours | 2007        | --- | --- | --- |
| Oil Hours     | 2000        | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE  
 CALGARY, AB  
 CA T2C 4R7

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## OIL CONDITION

|             |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 333 | --- | --- | --- |
|-------------|-----|-----|-----|-----|-----|



## CONTAMINATION

|           |     |    |     |     |     |
|-----------|-----|----|-----|-----|-----|
| Silicon   | ppm | 5  | --- | --- | --- |
| Sodium    | ppm | <1 | --- | --- | --- |
| Potassium | ppm | <1 | --- | --- | --- |



## WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | 123 | --- | --- | --- |
| Copper     | ppm | 4   | --- | --- | --- |
| Lead       | ppm | <1  | --- | --- | --- |
| Tin        | ppm | 0   | --- | --- | --- |
| Aluminum   | ppm | 1   | --- | --- | --- |
| Chromium   | ppm | 2   | --- | --- | --- |
| Molybdenum | ppm | <1  | --- | --- | --- |
| Nickel     | ppm | 0   | --- | --- | --- |
| Titanium   | ppm | 0   | --- | --- | --- |
| Silver     | ppm | 0   | --- | --- | --- |
| Manganese  | ppm | 2   | --- | --- | --- |
| Vanadium   | ppm | 0   | --- | --- | --- |



## ADDITIVES

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 8   | --- | --- | --- |
| Magnesium  | ppm | 1   | --- | --- | --- |
| Zinc       | ppm | 8   | --- | --- | --- |
| Phosphorus | ppm | 984 | --- | --- | --- |
| Barium     | ppm | 0   | --- | --- | --- |
| Boron      | ppm | 173 | --- | --- | --- |

## 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. Viscosity of sample indicates oil is within SAE 90W140 range, advise investigate. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO3909  
**Unique No:** 4835902  
**Signed:** Wes Davis  
**Report Date:** 13 Mar 2019



# CONSTRUCTION EQUIPMENT



## GRAPHS

