



# CONSTRUCTION EQUIPMENT

SPM701371 VOLVO ECR235EL 310702 - LEFT FINAL DRIVE



**Sample No:** VCP443528  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM701371



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## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP443528   | --- | --- | --- |
| Sample Date   | 12 Apr 2024 | --- | --- | --- |
| Machine Hours | 4256        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |



## OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ▲ 41.6 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



## CONTAMINATION

|           |     |         |     |     |     |
|-----------|-----|---------|-----|-----|-----|
| Water     | %   | ■ 0.165 | --- | --- | --- |
| Silicon   | ppm | ■ 18    | --- | --- | --- |
| Sodium    | ppm | ■ 7     | --- | --- | --- |
| Potassium | ppm | ■ <1    | --- | --- | --- |



## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | ■ 18 | --- | --- | --- |
| Copper     | ppm | ▲ 55 | --- | --- | --- |
| Lead       | ppm | ■ <1 | --- | --- | --- |
| Tin        | ppm | ■ <1 | --- | --- | --- |
| Aluminum   | ppm | ■ 0  | --- | --- | --- |
| Chromium   | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 0  | --- | --- | --- |
| Nickel     | ppm | ■ 3  | --- | --- | --- |
| Titanium   | ppm | 0    | --- | --- | --- |
| Silver     | ppm | 0    | --- | --- | --- |
| Manganese  | ppm | ■ 1  | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 3822 | --- | --- | --- |
| Magnesium  | ppm | ■ 9    | --- | --- | --- |
| Zinc       | ppm | ■ 1567 | --- | --- | --- |
| Phosphorus | ppm | ■ 1372 | --- | --- | --- |
| Barium     | ppm | ■ 0    | --- | --- | --- |
| Boron      | ppm | ■ 150  | --- | --- | --- |

## Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

**Depot:** VOLVO8885  
**Unique No:** 10990247  
**Signed:** Don Baldrige  
**Report Date:** 23 Apr 2024



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## GRAPHS

