



# CONSTRUCTION EQUIPMENT

SPM688436 SENNEBOGEN 835ME 835.0.3070 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP427255  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM688436



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP427255</b>   | VCP433803   | VCP411400   | VCP402112   |
| Sample Date   | <b>22 Mar 2024</b> | 11 Jan 2024 | 11 Aug 2023 | 20 Mar 2023 |
| Machine Hours | <b>3312</b>        | 3166        | 2080        | 1076        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | ABNORMAL    | ABNORMAL    |

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## OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>196</b> | 176 | 151 | 184 |
|-------------|-----|------------|-----|-----|-----|



## CONTAMINATION

| Water     | %   | NEG       | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon   | ppm | <b>21</b> | 16  | 5   | 4   |
| Sodium    | ppm | <b>2</b>  | 4   | 10  | 10  |
| Potassium | ppm | <b>1</b>  | <1  | 1   | 1   |

## 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 condition of the oil is acceptable for the time in service.



## WEAR METALS

|            |     |              |     |      |      |
|------------|-----|--------------|-----|------|------|
| Iron       | ppm | <b>95</b>    | 144 | 214  | 63   |
| Copper     | ppm | <b>43</b>    | 37  | ▲ 80 | ▲ 60 |
| Lead       | ppm | <b>&lt;1</b> | 0   | <1   | 0    |
| Tin        | ppm | <b>&lt;1</b> | 0   | 0    | 0    |
| Aluminum   | ppm | <b>1</b>     | 2   | 3    | 3    |
| Chromium   | ppm | <b>0</b>     | <1  | 2    | <1   |
| Molybdenum | ppm | <b>1</b>     | <1  | <1   | <1   |
| Nickel     | ppm | <b>0</b>     | 0   | <1   | <1   |
| Titanium   | ppm | <b>0</b>     | <1  | <1   | 0    |
| Silver     | ppm | <b>0</b>     | 0   | 0    | 0    |
| Manganese  | ppm | <b>3</b>     | 4   | 8    | 7    |
| Vanadium   | ppm | <b>0</b>     | 0   | 0    | 0    |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>2135</b> | 1776 | 33   | 25   |
| Magnesium  | ppm | <b>36</b>   | 37   | 0    | 2    |
| Zinc       | ppm | <b>980</b>  | 737  | 58   | 81   |
| Phosphorus | ppm | <b>876</b>  | 912  | 1369 | 1264 |
| Barium     | ppm | <b>11</b>   | 30   | 111  | 233  |
| Boron      | ppm | <b>10</b>   | 19   | 32   | 0    |

**Depot:** BELBOU  
**Unique No:** 10990258  
**Signed:** Don Baldrige  
**Report Date:** 23 Apr 2024



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## VOLVO GRAPHS

