



# CONSTRUCTION EQUIPMENT

SPM661642 ALTER SENNEBOGEN 835 835.0.2740 - REAR LEFT FINAL DRIVE



**Sample No:** VCP384571  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM661642 ALTER



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP384571</b>   | VCP423493   | VCP324578   | VCP306759   |
| Sample Date   | <b>02 Feb 2024</b> | 11 Aug 2023 | 16 Jul 2021 | 02 Mar 2021 |
| Machine Hours | <b>7536</b>        | 6443        | 1956        | 1108        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | N/A         |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | ABNORMAL    |

**ALTA CONSTRUCTION EQUIPMENT**  
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## OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>137</b> | 149 | 140 | 112 |
|-------------|-----|------------|-----|-----|-----|



## CONTAMINATION

| Water     | %   | NEG      | NEG | NEG | NEG |
|-----------|-----|----------|-----|-----|-----|
| Silicon   | ppm | <b>6</b> | 3   | 2   | 3   |
| Sodium    | ppm | <b>0</b> | 0   | <1  | 2   |
| Potassium | ppm | <b>0</b> | 0   | 0   | 12  |

## 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>105</b> | 52 | 36 | 83 |
| Copper     | ppm | <b>9</b>   | 24 | 28 | 22 |
| Lead       | ppm | <b>0</b>   | 0  | 0  | <1 |
| Tin        | ppm | <b>0</b>   | 0  | 0  | 0  |
| Aluminum   | ppm | <b>0</b>   | 0  | <1 | 1  |
| Chromium   | ppm | <b>0</b>   | <1 | 0  | <1 |
| Molybdenum | ppm | <b>0</b>   | 0  | <1 | 0  |
| Nickel     | ppm | <b>0</b>   | 0  | 0  | <1 |
| Titanium   | ppm | <b>0</b>   | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>   | 0  | 0  | 0  |
| Manganese  | ppm | <b>1</b>   | 1  | 1  | 2  |
| Vanadium   | ppm | <b>0</b>   | 0  | 0  | 0  |



## ADDITIVES

|            |     |            |      |      |     |
|------------|-----|------------|------|------|-----|
| Calcium    | ppm | <b>81</b>  | 18   | 24   | 27  |
| Magnesium  | ppm | <b>2</b>   | 2    | 1    | 2   |
| Zinc       | ppm | <b>42</b>  | 28   | 38   | 21  |
| Phosphorus | ppm | <b>522</b> | 1868 | 1817 | 631 |
| Barium     | ppm | <b>0</b>   | 0    | <1   | 25  |
| Boron      | ppm | <b>7</b>   | 118  | 143  | 3   |

**Depot:** VOLVO5055  
**Unique No:** 10873754  
**Signed:** Wes Davis  
**Report Date:** 13 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

