

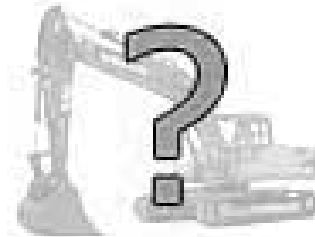


# CONSTRUCTION EQUIPMENT

## SENNEBOGEN 830E 830.0.2726 - DIESEL ENGINE



**Sample No:** VCP406645  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP406645</b>   | VCP370267   | VCP380653   | VCP355240   |
| Sample Date   | <b>21 Jul 2023</b> | 11 Jan 2023 | 07 Dec 2022 | 29 Sep 2022 |
| Machine Hours | <b>10523</b>       | 8763        | 8454        | 7912        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C     | cSt      | <b>13.7</b> | 12.8 | 13.0 | 14.1 |
| Base Number (BN) | mg KOH/g | <b>7.1</b>  | 9.6  | 10.3 | 7.4  |
| Oxidation (PA)   | %        | <b>74</b>   | 78   | 66   | 73   |

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### CONTAMINATION

|                |     |                |      |      |      |
|----------------|-----|----------------|------|------|------|
| Water          | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Soot %         | %   | <b>0.2</b>     | 0.2  | 1.5  | 0.2  |
| Nitration (PA) | %   | <b>81</b>      | 64   | 82   | 88   |
| Sulfation (PA) | %   | <b>58</b>      | 61   | 62   | 61   |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | <1.0 |
| Silicon        | ppm | <b>11</b>      | 6    | 3    | 3    |
| Sodium         | ppm | <b>0</b>       | 2    | 0    | <1   |
| Potassium      | ppm | <b>0</b>       | <1   | 2    | 0    |

### WEAR METALS

|            |     |           |    |    |    |
|------------|-----|-----------|----|----|----|
| Iron       | ppm | <b>3</b>  | 6  | 10 | 5  |
| Copper     | ppm | <b>0</b>  | <1 | 2  | <1 |
| Lead       | ppm | <b>0</b>  | 0  | 0  | <1 |
| Tin        | ppm | <b>0</b>  | 0  | <1 | <1 |
| Aluminum   | ppm | <b>2</b>  | 0  | 2  | 2  |
| Chromium   | ppm | <b>0</b>  | 0  | <1 | <1 |
| Molybdenum | ppm | <b>78</b> | 34 | 24 | 67 |
| Nickel     | ppm | <b>0</b>  | <1 | 0  | 0  |
| Titanium   | ppm | <b>0</b>  | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>  | 0  | <1 | 0  |
| Manganese  | ppm | <b>0</b>  | <1 | <1 | <1 |
| Vanadium   | ppm | <b>0</b>  | 0  | 0  | 0  |

### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>2105</b> | 1773 | 2375 | 2338 |
| Magnesium  | ppm | <b>144</b>  | 365  | 185  | 64   |
| Zinc       | ppm | <b>1277</b> | 1059 | 1148 | 1225 |
| Phosphorus | ppm | <b>1083</b> | 867  | 951  | 1016 |
| Barium     | ppm | <b>0</b>    | 0    | 1    | 0    |
| Boron      | ppm | <b>50</b>   | 42   | 23   | 44   |

**Depot:** UNICICIL  
**Unique No:** 10802537  
**Signed:** Wes Davis  
**Report Date:** 22 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

