



CONSTRUCTION EQUIPMENT

SPM621711 BL DUKE SENNEBOGEN 835ME 835.0.2810 - FRONT RIGHT FINAL DRIVE



Sample No: VCP413079
Oil Type: GEAR OIL SAE 80W90
Job No: SPM621711 BL DUKE



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP413079 | VCP383251 | VCP401592 | VCP364752 |
| Sample Date | 09 Nov 2023 | 09 Mar 2023 | 28 Feb 2023 | 15 Aug 2022 |
| Machine Hours | 6955 | 5516 | 5387 | 4111 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changed | Changed | Changed |
| Sample Status | ABNORMAL | NORMAL | NORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 198 | 135 | 139 | 188 |
|-------------|-----|------------|-----|-----|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|-----------|----|----|----|
| Silicon | ppm | 13 | <1 | 12 | 13 |
| Sodium | ppm | 2 | 0 | 2 | 3 |
| Potassium | ppm | 0 | 1 | <1 | 0 |

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-------|
| Iron | ppm | 115 | 1 | 237 | 201 |
| Copper | ppm | ▲ 107 | <1 | 24 | ▲ 176 |
| Lead | ppm | <1 | 0 | 0 | 3 |
| Tin | ppm | 0 | 0 | 0 | <1 |
| Aluminum | ppm | 4 | 1 | 2 | 8 |
| Chromium | ppm | 0 | 0 | 2 | 2 |
| Molybdenum | ppm | 0 | 3 | 2 | 2 |
| Nickel | ppm | 0 | 0 | <1 | <1 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | 4 | 0 | 4 | 8 |
| Vanadium | ppm | 0 | 0 | <1 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|------|
| Calcium | ppm | 2614 | 63 | 331 | 2164 |
| Magnesium | ppm | 18 | 50 | 13 | 29 |
| Zinc | ppm | 1183 | 67 | 191 | 910 |
| Phosphorus | ppm | 963 | 945 | 512 | 892 |
| Barium | ppm | 18 | 0 | 0 | 72 |
| Boron | ppm | <1 | 243 | 44 | 8 |

Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8885
Unique No: 10738437
Signed: Sean Felton
Report Date: 14 Nov 2023



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VOLVO GRAPHS

