



CONSTRUCTION EQUIPMENT

X59174 S RECYCLING VOLVO EC250EL 314100 - SWING DRIVE



Sample No: VCP440829
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: X59174 S RECYCLING



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP440829 | VCP407331 | VCP379173 | VCP320048 |
| Sample Date | 01 Feb 2024 | 15 Jun 2023 | 30 Aug 2022 | 11 Aug 2021 |
| Machine Hours | 3516 | 2382 | 1707 | 1192 |
| Oil Hours | 2000 | 0 | 0 | 0 |
| Oil Changed | Changed | N/A | Changed | Not Changd |
| Sample Status | NORMAL | NORMAL | ABNORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 340 | 336 | 318 | 179 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|-----|----------------|-----|
| Water | % | NEG | NEG | ▲ 0.465 | NEG |
| Silicon | ppm | 6 | 4 | 7 | 20 |
| Sodium | ppm | <1 | 0 | <1 | 3 |
| Potassium | ppm | 0 | <1 | 3 | 2 |

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 | 315 | 257 | 345 | ▲ 1871 |
| Copper | ppm | 13 | 10 | 23 | ▲ 140 |
| Lead | ppm | 0 | 0 | <1 | <1 |
| Tin | ppm | <1 | 0 | <1 | <1 |
| Aluminum | ppm | <1 | 0 | <1 | 8 |
| Chromium | ppm | 3 | 3 | 5 | 28 |
| Molybdenum | ppm | 0 | <1 | <1 | 3 |
| Nickel | ppm | 0 | 0 | <1 | 1 |
| Titanium | ppm | <1 | <1 | <1 | 1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 3 | 3 | 4 | 24 |
| Vanadium | ppm | 0 | 0 | <1 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|-----|-----|
| Calcium | ppm | 0 | 31 | 48 | 11 |
| Magnesium | ppm | 2 | 1 | 6 | 6 |
| Zinc | ppm | 43 | 35 | 48 | 75 |
| Phosphorus | ppm | 1030 | 1003 | 935 | 588 |
| Barium | ppm | <1 | 2 | 0 | 7 |
| Boron | ppm | 123 | 111 | 121 | 17 |

Depot: SCOSAI
Unique No: 10870298
Signed: Sean Felton
Report Date: 09 Feb 2024



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GRAPHS

