



CONSTRUCTION EQUIPMENT

X59174 S RECYCLING VOLVO EC250EL 314100 - REAR RIGHT FINAL DRIVE



Sample No: VCP440827
Oil Type: VOLVO 80W140
Job No: X59174 S RECYCLING



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP440827 | VCP407190 | VCP379168 | --- |
| Sample Date | 01 Feb 2024 | 15 Jun 2023 | 30 Aug 2022 | --- |
| Machine Hours | 3516 | 2382 | 1707 | --- |
| Oil Hours | 2000 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | ABNORMAL | ABNORMAL | NORMAL | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 339 | 331 | 302 | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----------------|------|-----|-----|
| Water | % | ▲ 0.853 | NEG | NEG | --- |
| Silicon | ppm | ▲ 85 | ▲ 98 | 36 | --- |
| Sodium | ppm | 3 | 1 | 1 | --- |
| Potassium | ppm | 9 | 11 | 5 | --- |

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|---------------|-------|-----|-----|
| Iron | ppm | ▲ 1030 | ▲ 913 | 257 | --- |
| Copper | ppm | 2 | 2 | <1 | --- |
| Lead | ppm | <1 | 1 | <1 | --- |
| Tin | ppm | <1 | 0 | <1 | --- |
| Aluminum | ppm | ▲ 19 | ▲ 19 | 6 | --- |
| Chromium | ppm | ▲ 16 | ▲ 19 | 6 | --- |
| Molybdenum | ppm | <1 | 3 | 1 | --- |
| Nickel | ppm | 1 | 2 | <1 | --- |
| Titanium | ppm | 2 | 2 | <1 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | 10 | 9 | 3 | --- |
| Vanadium | ppm | <1 | 0 | <1 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 0 | 149 | 52 | --- |
| Magnesium | ppm | 8 | 5 | <1 | --- |
| Zinc | ppm | 20 | 42 | 21 | --- |
| Phosphorus | ppm | 1091 | 1391 | 814 | --- |
| Barium | ppm | 6 | 7 | 0 | --- |
| Boron | ppm | 129 | 185 | 80 | --- |

Depot: SCOSAI
Unique No: 10870303
Signed: Sean Felton
Report Date: 09 Feb 2024



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GRAPHS

