



CONSTRUCTION EQUIPMENT

297630 VOLVO EC480EL 3 10354 - FRONT RIGHT FINAL DRIVE



Sample No: VCP427086
Oil Type: GEAR OIL SAE 80W90
Job No: 297630



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP427086 | VCP395445 | VCP331217 | VCP293301 |
| Sample Date | 28 Jun 2023 | 27 Feb 2023 | 29 Sep 2022 | 06 Oct 2020 |
| Machine Hours | 6960 | 6890 | 6700 | 4515 |
| Oil Hours | 0 | 27 | 0 | 0 |
| Oil Changed | Not Chngd | N/A | N/A | Changed |
| Sample Status | NORMAL | SEVERE | SEVERE | NORMAL |

SENECA MEADOWS
 1786 SALCMAN ROAD
 WATERLOO, NY
 US
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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|------|
| Visc @ 40°C | cSt | 141 | 138 | 126 | 68.3 |
|-------------|-----|------------|-----|-----|------|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|-----|-----|----|
| Silicon | ppm | 1 | 206 | 914 | 98 |
| Sodium | ppm | 3 | 5 | 19 | 5 |
| Potassium | ppm | 2 | 20 | 90 | 11 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|------|-----|
| Iron | ppm | 94 | 956 | 2726 | 522 |
| Copper | ppm | 0 | 2 | 6 | <1 |
| Lead | ppm | 0 | 0 | <1 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | 2 | 53 | 230 | 31 |
| Chromium | ppm | 2 | 8 | 18 | 6 |
| Molybdenum | ppm | 0 | 1 | 2 | <1 |
| Nickel | ppm | 0 | 1 | 2 | <1 |
| Titanium | ppm | 0 | 3 | 13 | 2 |
| Silver | ppm | <1 | <1 | 0 | <1 |
| Manganese | ppm | 2 | 7 | 19 | 4 |
| Vanadium | ppm | 0 | <1 | <1 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 13 | 102 | 320 | 53 |
| Magnesium | ppm | 0 | 13 | 45 | 7 |
| Zinc | ppm | 2 | 7 | 9 | 28 |
| Phosphorus | ppm | 421 | 1080 | 1096 | 1874 |
| Barium | ppm | <1 | 0 | 3 | 1 |
| Boron | ppm | 6 | 223 | 270 | 244 |

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.

Depot: SENWAT
Unique No: 10546436
Signed: Wes Davis
Report Date: 06 Jul 2023



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GRAPHS

