



CONSTRUCTION EQUIPMENT

600118 CRC VOLVO EC160E 310147 - SWING DRIVE



Sample No: VCP379856
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 600118 CRC



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP379856 | VCP346234 | VCP371482 | VCP300194 |
| Sample Date | 26 Apr 2023 | 31 Mar 2023 | 09 Jan 2023 | 16 Mar 2021 |
| Machine Hours | 9553 | 0 | 10533 | 5652 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | N/A | N/A | Not Changd | Not Changd |
| Sample Status | ATTENTION | ATTENTION | ATTENTION | NORMAL |

PACWEST MACHINERY

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OIL CONDITION

| | | | | | |
|-------------|-----|---------------|--------|--------|-------|
| Visc @ 40°C | cSt | ▲ 86.6 | ▲ 87.9 | ▲ 90.2 | ■ 173 |
|-------------|-----|---------------|--------|--------|-------|



CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|------|------|
| Silicon | ppm | ■ 9 | ■ 9 | ■ 8 | ■ 3 |
| Sodium | ppm | ■ 0 | ■ 0 | ■ <1 | ■ 2 |
| Potassium | ppm | ■ 2 | ■ 2 | ■ <1 | ■ <1 |



WEAR METALS

| | | | | | |
|------------|-----|----------------|-------|-------|------|
| Iron | ppm | ■ 264 | ■ 254 | ■ 227 | ■ 68 |
| Copper | ppm | ■ 9 | ■ 9 | ■ 8 | ■ 6 |
| Lead | ppm | ■ <1 | ■ <1 | ■ 0 | ■ 0 |
| Tin | ppm | ■ 0 | ■ 0 | ■ 0 | 0 |
| Aluminum | ppm | ■ <1 | ■ <1 | ■ <1 | 0 |
| Chromium | ppm | ■ 2 | ■ 2 | ■ 2 | <1 |
| Molybdenum | ppm | ■ 0 | ■ 0 | ■ <1 | ■ 0 |
| Nickel | ppm | ■ <1 | ■ <1 | ■ 0 | <1 |
| Titanium | ppm | <1 | <1 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 2 | ■ 2 | ■ 2 | ■ <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|---------------|-------|-------|--------|
| Calcium | ppm | ▲ 27 | ▲ 27 | ▲ 27 | ■ 14 |
| Magnesium | ppm | ■ 2 | ■ 2 | ■ 1 | ■ 1 |
| Zinc | ppm | ▲ 290 | ▲ 283 | ▲ 258 | ■ 52 |
| Phosphorus | ppm | ■ 1003 | ■ 993 | ■ 870 | ■ 1198 |
| Barium | ppm | ■ 2 | ■ 2 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 86 | ■ 86 | ■ 62 | ■ 174 |

Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO1271
Unique No: 10662071
Signed: Sean Felton
Report Date: 27 Sep 2023



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GRAPHS

