



CONSTRUCTION EQUIPMENT

600188 WASTE MGMT VOLVO EC160E 310147 - SWING DRIVE



Sample No: VCP420780
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 600188 WASTE MGMT



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP420780 | VCP435179 | VCP379856 | VCP346234 |
| Sample Date | 10 Jan 2024 | 21 Sep 2023 | 26 Apr 2023 | 31 Mar 2023 |
| Machine Hours | 12402 | 12010 | 9553 | 0 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | N/A | N/A |
| Sample Status | NORMAL | NORMAL | ATTENTION | ATTENTION |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|------|------|
| Visc @ 40°C | cSt | 242 | 268 | 86.6 | 87.9 |
|-------------|-----|------------|-----|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|----------|-----|-----|-----|
| Silicon | ppm | 4 | 2 | 9 | 9 |
| Sodium | ppm | 0 | 2 | 0 | 0 |
| Potassium | ppm | 1 | 2 | 2 | 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. Confirm oil type. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 109 | 73 | 264 | 254 |
| Copper | ppm | 4 | 3 | 9 | 9 |
| Lead | ppm | <1 | 0 | <1 | <1 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | 1 | <1 | <1 | <1 |
| Chromium | ppm | 2 | <1 | 2 | 2 |
| Molybdenum | ppm | <1 | 1 | 0 | 0 |
| Nickel | ppm | <1 | 0 | <1 | <1 |
| Titanium | ppm | <1 | 0 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 1 | <1 | 2 | 2 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 31 | 34 | 27 | 27 |
| Magnesium | ppm | 0 | 4 | 2 | 2 |
| Zinc | ppm | 61 | 64 | 290 | 283 |
| Phosphorus | ppm | 1095 | 1098 | 1003 | 993 |
| Barium | ppm | 0 | 0 | 2 | 2 |
| Boron | ppm | 175 | 232 | 86 | 86 |

Depot: VOLVO1271
Unique No: 10862314
Signed: Don Baldrige
Report Date: 07 Feb 2024



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VOLVO GRAPHS

