



CONSTRUCTION EQUIPMENT

5871-1 VOLVO ECR235E 314607 - DIESEL ENGINE



Sample No: VCP392665
Oil Type: MOBIL 15W40
Job No: 5871-1



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP392665 | VCP347267 | VCP302958 | --- |
| Sample Date | 04 Jan 2024 | 23 Mar 2022 | 04 May 2021 | --- |
| Machine Hours | 1434 | 652 | 397 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

MCCLUNG-LOGAN EQUIPMENT CO - SALEM
 2025 COOK DRIVE
 SALEM, VA
 US 24153
 Contact: HUNTER TRIVELLIN
 ttrivellin@mcclung-logan.com
 T: (540)553-1171
 F:



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 13.0 | 12.8 | 13.6 | --- |
| Base Number (BN) | mg KOH/g | 10.1 | 11.6 | --- | --- |
| Oxidation (PA) | % | 74 | 82 | 45 | --- |

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Water | % | NEG | NEG | NEG | --- |
| Soot % | % | 0.1 | 0.1 | 0.1 | --- |
| Nitration (PA) | % | 57 | 60 | 59 | --- |
| Sulfation (PA) | % | 58 | 63 | 50 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | 7 | 8 | 12 | --- |
| Sodium | ppm | 2 | 3 | 4 | --- |
| Potassium | ppm | 0 | 0 | 2 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 35 | 15 | 14 | --- |
| Copper | ppm | <1 | 2 | 6 | --- |
| Lead | ppm | <1 | <1 | <1 | --- |
| Tin | ppm | <1 | 1 | 2 | --- |
| Aluminum | ppm | 4 | 4 | 0 | --- |
| Chromium | ppm | <1 | <1 | <1 | --- |
| Molybdenum | ppm | 51 | 36 | 1 | --- |
| Nickel | ppm | <1 | 1 | 8 | --- |
| Titanium | ppm | 0 | 0 | <1 | --- |
| Silver | ppm | 0 | 0 | <1 | --- |
| Manganese | ppm | <1 | 1 | 4 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 1856 | 1941 | 2602 | --- |
| Magnesium | ppm | 606 | 535 | 76 | --- |
| Zinc | ppm | 1295 | 1122 | 1097 | --- |
| Phosphorus | ppm | 1111 | 1059 | 1038 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 60 | 49 | 4 | --- |

Depot: VOLVO9010
Unique No: 10820499
Signed: Wes Davis
Report Date: 09 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

