



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 314981 - DIESEL ENGINE



Sample No: VCP433870
Oil Type: DIESEL ENGINE OIL SAE 30
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP433870 | VCP369463 | VCP405900 | VCP402278 |
| Sample Date | 23 Oct 2023 | 07 Aug 2023 | 07 Jun 2023 | 22 Mar 2023 |
| Machine Hours | 2416 | 1929 | 1475 | 982 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.2 | 12.2 | 12.2 | 11.9 |
| Base Number (BN) | mg KOH/g | 8.2 | 9.1 | 8.4 | 7.6 |
| Oxidation (PA) | % | 80 | 82 | 85 | 71 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Soot % | % | 0.1 | 0.1 | 0.1 | 0.1 |
| Nitration (PA) | % | 69 | 67 | 68 | 73 |
| Sulfation (PA) | % | 57 | 60 | 62 | 59 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | 0.5 |
| Silicon | ppm | 17 | 10 | 10 | 9 |
| Sodium | ppm | 3 | 0 | 3 | 2 |
| Potassium | ppm | <1 | 1 | 1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 6 | 6 | 9 | 6 |
| Copper | ppm | 3 | 3 | 7 | 48 |
| Lead | ppm | 0 | <1 | <1 | 0 |
| Tin | ppm | <1 | <1 | 1 | <1 |
| Aluminum | ppm | 2 | 2 | 2 | 1 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 48 | 44 | 51 | 59 |
| Nickel | ppm | 2 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | 1 |
| Vanadium | ppm | 0 | 0 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1662 | 1673 | 1630 | 1521 |
| Magnesium | ppm | 542 | 469 | 551 | 827 |
| Zinc | ppm | 951 | 894 | 988 | 1257 |
| Phosphorus | ppm | 773 | 734 | 805 | 1002 |
| Barium | ppm | 0 | 2 | 0 | 0 |
| Boron | ppm | 20 | 19 | 22 | 9 |

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 acceptable for the time in service.

Depot: SAIBIR
Unique No: 10722508
Signed: Sean Felton
Report Date: 01 Nov 2023



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GRAPHS

