



CONSTRUCTION EQUIPMENT

VOLVO EC480E 314146 - DIESEL ENGINE



Sample No: VCP432204
Oil Type: DIESEL ENGINE OIL SAE 30
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP432204 | VCP419108 | VCP424699 | VCP371258 |
| Sample Date | 31 Jan 2024 | 28 Aug 2023 | 03 May 2023 | 17 Jan 2023 |
| Machine Hours | 6892 | 6421 | 5940 | 5434 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

SAIIA CONSTRUCTION LLC

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 11.9 | 11.6 | 12.0 | 11.9 |
| Base Number (BN) | mg KOH/g | 6.4 | 8.8 | 7.1 | 8.6 |
| Oxidation (PA) | % | 73 | 70 | 69 | 71 |

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 | NEG |
| Soot % | % | 0.1 | 0.2 | 0.1 | 0.1 |
| Nitration (PA) | % | 86 | 69 | 70 | 73 |
| Sulfation (PA) | % | 54 | 55 | 51 | 55 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | 1.0 |
| Silicon | ppm | 15 | 5 | 7 | 6 |
| Sodium | ppm | 0 | 3 | 2 | 1 |
| Potassium | ppm | 3 | 2 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 11 | 6 | 7 | 9 |
| Copper | ppm | 4 | <1 | <1 | 1 |
| Lead | ppm | <1 | 1 | 0 | 2 |
| Tin | ppm | <1 | <1 | <1 | <1 |
| Aluminum | ppm | 4 | 2 | 1 | <1 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 148 | 43 | 54 | 52 |
| Nickel | ppm | 3 | <1 | 1 | 1 |
| Titanium | ppm | <1 | <1 | <1 | 0 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | 0 | 1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 2141 | 1730 | 1507 | 1585 |
| Magnesium | ppm | 884 | 514 | 769 | 811 |
| Zinc | ppm | 1382 | 990 | 1062 | 1174 |
| Phosphorus | ppm | 1136 | 788 | 917 | 934 |
| Barium | ppm | 26 | 0 | 0 | 0 |
| Boron | ppm | 68 | 35 | 12 | 10 |

Depot: SAIBIR
Unique No: 10872018
Signed: Don Baldrige
Report Date: 12 Feb 2024



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GRAPHS

