



CONSTRUCTION EQUIPMENT

A10991 VOLVO EC480DL 210065 - REAR RIGHT FINAL DRIVE



Sample No: VCP424791
Oil Type: MOBIL MOBILUBE HD 80W90
Job No: A10991



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP424791 | VCP399157 | VCP261503 | VCP250549 |
| Sample Date | 26 Aug 2023 | 13 Jan 2023 | 24 Feb 2020 | 29 Aug 2019 |
| Machine Hours | 8275 | 7764 | 5900 | 5480 |
| Oil Hours | 1000 | 0 | 1000 | 500 |
| Oil Changed | Changed | Not Changd | Changed | Not Changd |
| Sample Status | ABNORMAL | ABNORMAL | SEVERE | SEVERE |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 169 | 170 | 281 | 279 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|-----------|-----|-----|-----|
| Silicon | ppm | 97 | 102 | 426 | 318 |
| Sodium | ppm | 3 | 2 | 14 | 12 |
| Potassium | ppm | 6 | 4 | 23 | 16 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 271 | 357 | 829 | 566 |
| Copper | ppm | 20 | 19 | 69 | 53 |
| Lead | ppm | 0 | <1 | <1 | <1 |
| Tin | ppm | 1 | 2 | 0 | 0 |
| Aluminum | ppm | 12 | 16 | 86 | 66 |
| Chromium | ppm | 3 | 4 | 10 | 6 |
| Molybdenum | ppm | <1 | <1 | 1 | 2 |
| Nickel | ppm | <1 | 2 | 3 | 2 |
| Titanium | ppm | 1 | 2 | 8 | 6 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 3 | 3 | 8 | 6 |
| Vanadium | ppm | 0 | 0 | 0 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|------------|------|-----|-----|
| Calcium | ppm | 21 | 21 | 146 | 136 |
| Magnesium | ppm | 1 | 5 | 49 | 49 |
| Zinc | ppm | 3 | 10 | 69 | 64 |
| Phosphorus | ppm | 997 | 1003 | 829 | 800 |
| Barium | ppm | 0 | 0 | <1 | <1 |
| Boron | ppm | 170 | 159 | 106 | 99 |

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: JAAPHI
Unique No: 10648975
Signed: Sean Felton
Report Date: 19 Sep 2023



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VOLVO GRAPHS

