



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - REAR AXLE



Sample No: VCP445784
Oil Type: MOBIL MOBILUBE HD PLUS 80W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP445784 | VCP398091 | VCP400069 | VCP404856 |
| Sample Date | 15 Apr 2024 | 11 Mar 2024 | 20 Jul 2023 | 02 May 2023 |
| Machine Hours | 11573 | 11321 | 10329 | 9875 |
| Oil Hours | 926 | 674 | 933 | 479 |
| Oil Changed | Changed | Not Changd | Changed | Not Changd |
| Sample Status | ABNORMAL | ABNORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 136 | 136 | 132 | 132 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|--------------|-------|------|-----|
| Silicon | ppm | ▲ 100 | ▲ 108 | ■ 2 | ■ 6 |
| Sodium | ppm | ■ 1 | ■ 2 | ■ <1 | ■ 1 |
| Potassium | ppm | ■ 7 | ■ 7 | ■ <1 | ■ 0 |

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.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-------|------|------|
| Iron | ppm | ■ 195 | ■ 213 | ■ 10 | ■ 37 |
| Copper | ppm | ■ 2 | ■ 2 | ■ <1 | ■ 1 |
| Lead | ppm | ■ <1 | ■ <1 | ■ 0 | ■ 0 |
| Tin | ppm | ■ <1 | ■ <1 | ■ 0 | ■ 0 |
| Aluminum | ppm | ● 19 | ● 21 | ■ 0 | ■ 0 |
| Chromium | ppm | ■ 2 | ■ 3 | ■ <1 | ■ <1 |
| Molybdenum | ppm | ■ 2 | ■ 2 | ■ <1 | ■ <1 |
| Nickel | ppm | ■ 2 | ■ 2 | ■ 0 | ■ 0 |
| Titanium | ppm | 2 | 2 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 2 | ■ 2 | ■ <1 | ■ <1 |
| Vanadium | ppm | <1 | <1 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|---------------|-------|-------|-------|
| Calcium | ppm | ■ 232 | ■ 251 | ■ 397 | ■ 430 |
| Magnesium | ppm | ■ 13 | ■ 14 | ■ 8 | ■ 8 |
| Zinc | ppm | ■ 95 | ■ 102 | ■ 138 | ■ 140 |
| Phosphorus | ppm | ■ 1034 | ■ 940 | ■ 951 | ■ 994 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 198 | ■ 166 | ■ 172 | ■ 153 |

Depot: SCHGRE
Unique No: 11009495
Signed: Don Baldrige
Report Date: 07 May 2024



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VOLVO GRAPHS

