



CONSTRUCTION EQUIPMENT

VOLVO A40D 70322 - FRONT AXLE



Sample No: VCP419849
Oil Type: MOBIL MOBILUBE HD 80W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP419849 | VCP378833 | VCP360999 | VCP347989 |
| Sample Date | 01 Aug 2023 | 16 Sep 2022 | 16 Jun 2022 | 11 May 2022 |
| Machine Hours | 26925 | 25375 | 24817 | 24564 |
| Oil Hours | 991 | 558 | 1051 | 798 |
| Oil Changed | Changed | Not Changd | Changed | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|-----|-----|-----|
| Visc @ 40°C | cSt | 86.7 | 111 | 106 | 113 |
|-------------|-----|-------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|---|---|---|
| Silicon | ppm | 8 | 4 | 5 | 5 |
| Sodium | ppm | 0 | 0 | 0 | 2 |
| Potassium | ppm | 2 | 0 | 2 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 39 | 22 | 24 | 23 |
| Copper | ppm | 11 | 6 | 6 | 4 |
| Lead | ppm | <1 | 0 | <1 | <1 |
| Tin | ppm | 0 | 0 | 0 | <1 |
| Aluminum | ppm | <1 | <1 | <1 | <1 |
| Chromium | ppm | <1 | <1 | 0 | <1 |
| Molybdenum | ppm | <1 | <1 | 1 | 1 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1733 | 842 | 1101 | 923 |
| Magnesium | ppm | 12 | 8 | 15 | 17 |
| Zinc | ppm | 678 | 342 | 447 | 374 |
| Phosphorus | ppm | 1100 | 1001 | 1044 | 1068 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 187 | 153 | 198 | 154 |

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 condition of the oil is acceptable for the time in service.

Depot: SCHGRE
Unique No: 10617696
Signed: Sean Felton
Report Date: 25 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

