



CONSTRUCTION EQUIPMENT

VOLVO A40F 12382 - WET DISC BRAKE



Sample No: VCP331520
Oil Type: MOBIL MOBILFLUID 424
Job No:



SAMPLE INFORMATION

| Sample Number | VCP331520 | VCP312568 | VCP385204 | VCP358440 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 30 Jan 2024 | 01 Sep 2023 | 24 Jan 2023 | 14 Jul 2022 |
| Machine Hours | 14544 | 13992 | 12493 | 11416 |
| Oil Hours | 1525 | 973 | 1371 | 294 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| Visc @ 40°C | cSt | 52.2 | 52.4 | 53.3 | 52.4 |
|-------------|-----|------|------|------|------|
|-------------|-----|------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 16 | 14 | 16 | 15 |
| Sodium | ppm | 6 | 4 | 6 | 4 |
| Potassium | ppm | <1 | 1 | 0 | 2 |

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.



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 22 | 23 | 22 | 23 |
| Copper | ppm | 34 | 31 | 23 | 30 |
| Lead | ppm | 2 | <1 | <1 | <1 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | 2 | 2 | <1 | 2 |
| Chromium | ppm | 0 | <1 | 0 | <1 |
| Molybdenum | ppm | <1 | <1 | <1 | <1 |
| Nickel | ppm | <1 | <1 | 0 | 0 |
| Titanium | ppm | 0 | 0 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | <1 | <1 | 1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 3351 | 3300 | 3406 | 3552 |
| Magnesium | ppm | 23 | 20 | 26 | 17 |
| Zinc | ppm | 1406 | 1397 | 1269 | 1442 |
| Phosphorus | ppm | 1098 | 1137 | 1023 | 1183 |
| Barium | ppm | 0 | 0 | 0 | 2 |
| Boron | ppm | 105 | 123 | 115 | 134 |

Depot: SCHGRE
Unique No: 10898647
Signed: Jonathan Hester
Report Date: 28 Feb 2024



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VOLVO GRAPHS

