



CONSTRUCTION EQUIPMENT

3598 BULK EXPRESS VOLVO L180H 5720 - FRONT AXLE



Sample No: VCP441783
Oil Type: VOLVO WB 102
Job No: 3598 BULK EXPRESS



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP441783 | VCP432357 | VCP434603 | VCP434888 |
| Sample Date | 07 Feb 2024 | 20 Dec 2023 | 07 Nov 2023 | 13 Sep 2023 |
| Machine Hours | 2615 | 2139 | 1692 | 1126 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | N/A | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 46.4 | 41.4 | 41.3 | 41.1 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon | ppm | 13 | 14 | 14 | 12 |
| Sodium | ppm | 4 | <1 | 3 | 3 |
| Potassium | ppm | 0 | 5 | 2 | 3 |

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 | 66 | 75 | 61 | 49 |
| Copper | ppm | 5 | 6 | 4 | 3 |
| Lead | ppm | 0 | 0 | 1 | <1 |
| Tin | ppm | 0 | 0 | <1 | 0 |
| Aluminum | ppm | 1 | 2 | 2 | <1 |
| Chromium | ppm | 2 | 3 | 2 | 2 |
| Molybdenum | ppm | 2 | 6 | 4 | 4 |
| Nickel | ppm | 0 | <1 | <1 | 0 |
| Titanium | ppm | <1 | <1 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 4 | 5 | 4 | 3 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 3512 | 3737 | 3646 | 3899 |
| Magnesium | ppm | 11 | 11 | 12 | 13 |
| Zinc | ppm | 1493 | 1576 | 1547 | 1603 |
| Phosphorus | ppm | 1325 | 1341 | 1344 | 1325 |
| Barium | ppm | 0 | 10 | 0 | 0 |
| Boron | ppm | 128 | 128 | 127 | 150 |

Depot: VOLVO0096
Unique No: 10873851
Signed: Wes Davis
Report Date: 13 Feb 2024



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VOLVO GRAPHS

