



CONSTRUCTION EQUIPMENT

21 VOLVO L90H 25852 - FRONT AXLE



Sample No: VCP439923
Oil Type: VOLVO WB 102
Job No: 21



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP439923 | VCP430542 | VCP405780 | VCP387244 |
| Sample Date | 10 May 2024 | 12 Dec 2023 | 02 Jun 2023 | 09 Dec 2022 |
| Machine Hours | 13887 | 11840 | 9128 | 6782 |
| Oil Hours | 2000 | 2000 | 2400 | 2000 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 41.8 | 42.3 | 42.6 | 42.5 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon | ppm | 10 | 5 | 19 | 11 |
| Sodium | ppm | 0 | 0 | 2 | <1 |
| Potassium | ppm | 2 | 0 | 0 | 0 |

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 | 10 | 56 | 132 | 187 |
| Copper | ppm | 1 | 0 | <1 | <1 |
| Lead | ppm | <1 | 0 | 0 | 2 |
| Tin | ppm | <1 | 0 | 0 | 4 |
| Aluminum | ppm | 2 | 2 | 2 | 0 |
| Chromium | ppm | <1 | 1 | 2 | 2 |
| Molybdenum | ppm | <1 | 0 | 1 | 3 |
| Nickel | ppm | <1 | 0 | <1 | 2 |
| Titanium | ppm | 1 | 0 | <1 | 0 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | <1 | 0 | 3 | 3 |
| Vanadium | ppm | <1 | 0 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 3537 | 3347 | 4294 | 3612 |
| Magnesium | ppm | 10 | 9 | 24 | 13 |
| Zinc | ppm | 1667 | 1402 | 1657 | 1442 |
| Phosphorus | ppm | 1321 | 1244 | 1324 | 1244 |
| Barium | ppm | 0 | 4 | 0 | 0 |
| Boron | ppm | 115 | 103 | 182 | 109 |

Depot: PLEDOV
Unique No: 11112849
Signed: Wes Davis
Report Date: 08 Jul 2024



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GRAPHS

