



CONSTRUCTION EQUIPMENT

687744 VOLVO L110H 631322 - FRONT AXLE



Sample No: VCP444030
Oil Type: VOLVO WB 102
Job No: 687744



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP444030 | VCP398031 | VCP385829 | VCP357261 |
| Sample Date | 16 Mar 2024 | 01 Aug 2023 | 23 Sep 2022 | 25 Mar 2022 |
| Machine Hours | 11137 | 9947 | 8782 | 7920 |
| Oil Hours | 3137 | 2000 | 2000 | 2000 |
| Oil Changed | Not Chngd | Not Chngd | Changed | Changed |
| Sample Status | ATTENTION | ABNORMAL | NORMAL | NORMAL |

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rturner@ripatampa.com



OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 57.5 | 42.8 | 39.3 | 39.5 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|----------|-----|-----|-----|
| Silicon | ppm | 3 | 13 | 13 | 13 |
| Sodium | ppm | 0 | 0 | 5 | 8 |
| Potassium | ppm | 0 | <1 | 2 | 0 |

T:
F:

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 | 21 | 27 | 147 | 126 |
| Copper | ppm | 0 | <1 | 3 | 3 |
| Lead | ppm | 0 | 0 | 0 | <1 |
| Tin | ppm | 0 | 0 | 0 | <1 |
| Aluminum | ppm | <1 | 3 | 1 | 1 |
| Chromium | ppm | 0 | <1 | 2 | 2 |
| Molybdenum | ppm | 3 | 7 | 2 | 2 |
| Nickel | ppm | 0 | <1 | 0 | <1 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | <1 | <1 | 3 | 3 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1201 | 3933 | 4060 | 4146 |
| Magnesium | ppm | 17 | 33 | 29 | 22 |
| Zinc | ppm | 835 | 1560 | 1652 | 1701 |
| Phosphorus | ppm | 669 | 1290 | 1330 | 1413 |
| Barium | ppm | 0 | 1 | 1 | 0 |
| Boron | ppm | 40 | 159 | 128 | 123 |

Depot: RIPTAM
Unique No: 10976314
Signed: Don Baldrige
Report Date: 15 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

