

CONSTRUCTION EQUIPMENT VOLVO L 1 1 0H 63 1237 - HYDRAULIC SYSTEM



Sample No: VCP414663

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No:

Barium

Boron

| CAMDIE | INFORMATION | | | | |
|-------------------|----------------|---------------|---------------|---------------|---------------|
| _ | . INI UNMATION | VCD 44 4662 | VCD200242 | VCD222054 | V(CD200046 |
| Sample Number | | VCP414663 | VCP388242 | VCP332851 | VCP300046 |
| Sample Date | | 06 Sep 2023 | 02 Nov 2022 | 03 Mar 2022 | 25 Jan 2021 |
| Machine Hours | | 9867 | 8131 | 7211 | 6064 |
| Oil Hours | | 0 | 4000 | 3200 | 2000 |
| Oil Changed | | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | | SEVERE | NORMAL | NORMAL | NORMAL |
| VOLVO | | | | | |
| OIL CON | DITION | | | | |
| Visc @ 40°C | cSt | 41.4 | ■ 39.5 | □39.9 | 44.1 |
| Acid Number (AN | J) ma KOH/a | 0.37 | 0.35 | □ 0.29 | 0.342 |
| | , , , , | | | | |
| VOLVO | UNATION | | | | |
| _ | MINATION | | | | |
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | 33798 | 855 | 1991 | 12434 |
| Particles >6µm | | 12328 | 162 | ■353 | 641 |
| Particles > 14µm | | 1700 | 1 8 | ■30 | 1 7 |
| ISO 4406:1999 (c) | | 22/21/18 | 17/15/11 | 18/16/12 | 21/17/11 |
| Silicon | ppm | ■7 | 1 1 | 1 2 | □12 |
| Sodium | ppm | ■0 | 2 | - <1 | 0 |
| Potassium | ppm | ■ <1 | 0 | 1 | |
| VOLVO | | | | | |
| WEAR M | TETALS | | | | |
| Iron | ppm | ■8 | 1 2 | 1 1 | □10 |
| Copper | ppm | ■ 3 | 3 | 4 | 4 |
| Lead | ppm | 2 | 3 | 3 | 2 |
| Tin | ppm | ■<1 | - <1 | - <1 | - <1 |
| Aluminum | ppm | 0 | 2 | 2 | < 1 |
| Chromium | ppm | 2 | 3 | 2 | 2 |
| Molybdenum | ppm | 11 | 2 | ■3 | ■3 |
| Nickel | ppm | ■<1 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | ■0 | 0 | 0 | |
| Vanadium | ppm | 0 | 0 | 0 | 0 |
| | | | | | |
| ADDITIV | ZES | | | | |
| Calcium | | 120 | □ 93 | 1 02 | □ 133 |
| Magnesium | ppm | 25 | 1 0 | □ 102 □ 12 | ■ 133 ■ 13 |
| Zinc | ppm | 452 | ■ 10 ■ 371 | ■ 12 ■ 418 | □ 13 □ 434 |
| Phosphorus | ppm | 334 | 309 | 313 | ■434 ■328 |
| rnosphorus | ppm | ■ 334 | 303 | <u></u> 313 | <u> </u> |



RIPA AND ASSOCIATES

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Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot:RIPTAMUnique No:10683340Signed:Wes DavisReport Date:09 Oct 2023

ppm

ppm

0

4



CONSTRUCTION EQUIPMENT





GRAPHS

