CONSTRUCTION EQUIPMENT 594089 DIPRO VOLVO L220 3352 - HYDRAULIC SYSTEM

Sample No:VCP411897Oil Type:VOLVO SUPER HYDRAULIC OIL 46

VOIN

Job No:

594089 DIPRO

| vo | | |
|----|--------------------|--|
| ∕∕ | SAMPLE INFORMATION | |

| Sample Number | VCP411897 | VCP421773 | VCP380942 | VCP388945 |
|---------------------------|-------------|-------------|-------------|-------------|
| Sample Date | 14 Aug 2023 | 22 Mar 2023 | 13 Dec 2022 | 04 Aug 2022 |
| Machine Hours | 6368 | 4140 | 2544 | 955 |
| Oil Hours | 2000 | 4140 | 2544 | 955 |
| Oil Changed | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | ABNORMAL | ABNORMAL | ABNORMAL | ABNORMAL |
| | | | | |
| OIL CONDITION | | | | |
| Visc @ 40°C cSt | 43.0 | 41.5 | 42.1 | 42.8 |
| Acid Number (AN) mg KOH/g | 0.42 | 0.38 | 0.33 | 0.33 |
| VOLVO | | | | |

| CONTAI | MINATION | | | | |
|------------------|----------|----------------|------------|--------------|----|
| Water | % | A 0.115 | | | |
| Particles >4µm | | | | 38592 | |
| Particles >6µm | | | | 11075 | |
| Particles >14µm | | | | 1 017 | |
| ISO 4406:1999 (c | :) | | | 22/21/17 | |
| Silicon | ppm | | 1 | □ <1 | <1 |
| Sodium | ppm | 2 | 1 | <1 | 0 |
| Potassium | ppm | 0 | <1 | 0 | 1 |

VOLVO

| WEAR N | METALS | | | | | |
|------------|--------|----------|---|------------|-----|--|
| Iron | ppm | 4 | 4 | 3 | 2 | |
| Copper | ppm | 1 | 2 | 2 | 2 | |
| Lead | ppm | 0 | 0 | 1 | < 1 | |
| Tin | ppm | 0 | 0 | 0 | <1 | |
| Aluminum | ppm | □<1 | 0 | 0 | < 1 | |
| Chromium | ppm | 1 | 2 | <1 | 0 | |
| Molybdenum | ppm | 0 | 0 | 0 | 0 | |
| Nickel | ppm | 0 | 0 | 0 | 0 | |
| Titanium | ppm | 0 | 0 | 0 | 0 | |
| Silver | ppm | 0 | 0 | 0 | 0 | |
| Manganese | ppm | □ <1 | 0 | 0 | 0 | |
| Vanadium | ppm | 0 | 0 | 0 | 0 | |

VOLVO

| ADDITI | VES | | | | |
|------------|-----|-----|-----|-----|------------|
| Calcium | ppm | 29 | 58 | 60 | 63 |
| Magnesium | ppm | 0 | 2 | 0 | <1 |
| Zinc | ppm | 480 | 424 | 441 | 438 |
| Phosphorus | ppm | 384 | 322 | 354 | 332 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | 0 |



ALTA EQUIPMENT COMPANY - METRO WEST

56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL CONZ paul.conz@altg.com T: (313)348-8861 F: (248)356-2029

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO2990

 Unique No:
 10616761

 Signed:
 Don Baldridge

 Report Date:
 24 Aug 2023

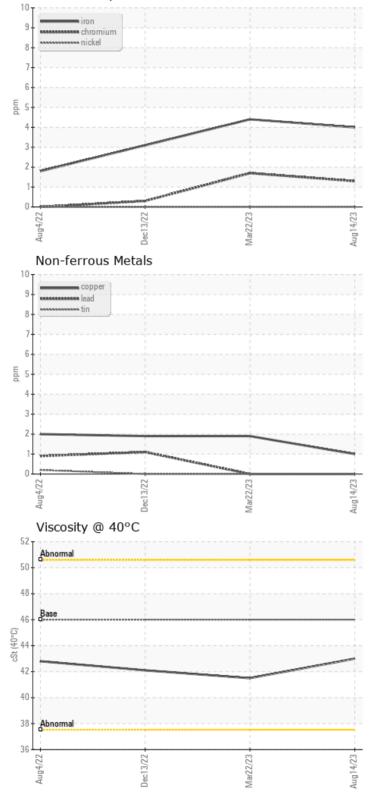
CONSTRUCTION EQUIPMENT

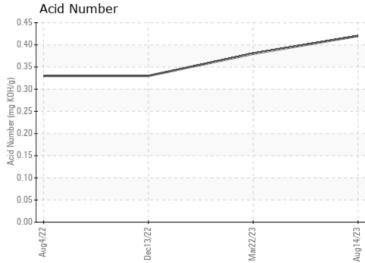




Ferrous Alloys

VOLVO





Report Id: VOLVO2990 [WUSCAR] 05931490 (Generated: 08/24/2023 11:18:38) Rev: 1