



CONSTRUCTION EQUIPMENT

SWO-070859 VOLVO L220H 2940 - REAR AXLE



Sample No: VCP438684
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No: SWO-070859



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP438684 | VCP428825 | VCP411746 | VCP345684 |
| Sample Date | 03 Apr 2024 | 05 Dec 2023 | 22 Aug 2023 | 27 Jan 2022 |
| Machine Hours | 8626 | 8123 | 7630 | 3597 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Changed | Changed |
| Sample Status | MARGINAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 52.8 | 54.6 | 48.9 | 48.7 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon | ppm | 15 | 14 | 13 | 12 |
| Sodium | ppm | <1 | 2 | 6 | 2 |
| Potassium | ppm | 2 | 4 | 0 | 2 |

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 26 | 26 | 42 | 49 |
| Copper | ppm | 3 | 3 | 10 | 18 |
| Lead | ppm | <1 | <1 | 0 | 2 |
| Tin | ppm | 1 | <1 | 0 | <1 |
| Aluminum | ppm | 2 | 2 | 3 | 3 |
| Chromium | ppm | 1 | <1 | <1 | 1 |
| Molybdenum | ppm | 6 | 6 | 2 | 4 |
| Nickel | ppm | <1 | <1 | 0 | <1 |
| Titanium | ppm | <1 | 0 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | 2 |
| Manganese | ppm | 2 | <1 | 2 | 33 |
| Vanadium | ppm | <1 | <1 | 0 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 3356 | 2335 | 3435 | 3301 |
| Magnesium | ppm | 57 | 27 | 35 | 58 |
| Zinc | ppm | 1404 | 1113 | 1377 | 1205 |
| Phosphorus | ppm | 1206 | 884 | 1138 | 1125 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 112 | 92 | 103 | 111 |

Depot: SAIBIR
Unique No: 10968190
Signed: Doug Bogart
Report Date: 11 Apr 2024



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GRAPHS

