



# CONSTRUCTION EQUIPMENT

## SW1013401 TERRA VOLVO L110H 631395 - FRONT AXLE



**Sample No:** VCP396522  
**Oil Type:** VOLVO WET BRAKE TRANSAXLE OIL  
**Job No:** SW1013401 TERRA



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP396522</b>   | VCP385586   | VCP313516   | VCP301656   |
| Sample Date   | <b>16 Mar 2023</b> | 13 Oct 2022 | 02 Mar 2022 | 12 Jan 2021 |
| Machine Hours | <b>7586</b>        | 6672        | 5220        | 3496        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Changed     | N/A         | N/A         |
| Sample Status | <b>NORMAL</b>      | NORMAL      | ABNORMAL    | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>47.9</b> | 47.3 | 47.7 | 47.7 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

| Water     | %   | NEG          | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon   | ppm | <b>5</b>     | 14  | 14  | 15  |
| Sodium    | ppm | <b>&lt;1</b> | 2   | 6   | 7   |
| Potassium | ppm | <b>&lt;1</b> | 2   | 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 | <b>146</b>   | 281 | 167 | 84 |
| Copper     | ppm | <b>2</b>     | 10  | 8   | 3  |
| Lead       | ppm | <b>&lt;1</b> | 1   | 1   | 2  |
| Tin        | ppm | <b>&lt;1</b> | 0   | <1  | 0  |
| Aluminum   | ppm | <b>1</b>     | 2   | 1   | <1 |
| Chromium   | ppm | <b>2</b>     | 3   | 2   | 2  |
| Molybdenum | ppm | <b>1</b>     | 2   | 2   | 0  |
| Nickel     | ppm | <b>1</b>     | 0   | 0   | <1 |
| Titanium   | ppm | <b>&lt;1</b> | <1  | <1  | <1 |
| Silver     | ppm | <b>2</b>     | 0   | 0   | 0  |
| Manganese  | ppm | <b>3</b>     | 5   | 4   | 2  |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | 0  |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3139</b> | 3612 | 3395 | 3855 |
| Magnesium  | ppm | <b>7</b>    | 13   | 14   | 12   |
| Zinc       | ppm | <b>1326</b> | 1442 | 1266 | 1499 |
| Phosphorus | ppm | <b>1152</b> | 1211 | 1080 | 1207 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>21</b>   | 103  | 110  | 107  |

**Depot:** VOLVO5856  
**Unique No:** 10389671  
**Signed:** Wes Davis  
**Report Date:** 24 Mar 2023



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## VOLVO GRAPHS

