



# CONSTRUCTION EQUIPMENT

BLC 395661 VOLVO L110H 631759 - DIESEL ENGINE



**Sample No:** VCP394445  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 395661



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP394445</b>   | VCP380408   | VCP392295   | VCP353016   |
| Sample Date   | <b>22 Feb 2024</b> | 19 Sep 2023 | 23 Jun 2023 | 17 Nov 2022 |
| Machine Hours | <b>5016</b>        | 4504        | 4010        | 3249        |
| Oil Hours     | <b>500</b>         | 500         | 500         | 500         |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | ABNORMAL    | NORMAL      |



### STRONGCO EQUIPMENT INC (STE- FOY)

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## OIL CONDITION

|                |     |             |      |     |      |
|----------------|-----|-------------|------|-----|------|
| Visc @ 100°C   | cSt | <b>13.1</b> | 13.5 | 7.5 | 13.3 |
| Oxidation (PA) | %   | <b>82</b>   | 84   | 36  | 85   |



## CONTAMINATION

|                |     |                |      |     |      |
|----------------|-----|----------------|------|-----|------|
| Water          | %   | <b>NEG</b>     | NEG  | NEG | NEG  |
| Soot %         | %   | <b>0.3</b>     | 0.4  | 0   | 0.1  |
| Nitration (PA) | %   | <b>65</b>      | 66   | 22  | 62   |
| Sulfation (PA) | %   | <b>63</b>      | 65   | 55  | 67   |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | 2   | <1.0 |
| Silicon        | ppm | <b>5</b>       | 4    | 15  | 4    |
| Sodium         | ppm | <b>2</b>       | 3    | 3   | 2    |
| Potassium      | ppm | <b>&lt;1</b>   | 1    | <1  | <1   |



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>12</b>    | 13 | 43 | 10 |
| Copper     | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Lead       | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Tin        | ppm | <b>&lt;1</b> | <1 | 0  | <1 |
| Aluminum   | ppm | <b>6</b>     | 5  | 2  | 5  |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>46</b>    | 42 | <1 | 41 |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Titanium   | ppm | <b>0</b>     | 0  | <1 | <1 |
| Silver     | ppm | <b>0</b>     | <1 | 0  | 0  |
| Manganese  | ppm | <b>0</b>     | 0  | <1 | <1 |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1808</b> | 1760 | 4094 | 1691 |
| Magnesium  | ppm | <b>464</b>  | 520  | 16   | 510  |
| Zinc       | ppm | <b>1100</b> | 1120 | 1624 | 1099 |
| Phosphorus | ppm | <b>960</b>  | 948  | 1357 | 1018 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>36</b>   | 26   | 120  | 40   |

### Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

**Depot:** VOLVO0228  
**Unique No:** 5735348  
**Signed:** Wes Davis  
**Report Date:** 27 Feb 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

