



# CONSTRUCTION EQUIPMENT

LAKESIDE 8-387322 VOLVO L70H 622910 - DIESEL ENGINE



**Sample No:** VCP380061  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-387322



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP380061</b>   | VCP353486   | VCP347105   | VCP331997   |
| Sample Date   | <b>14 Dec 2023</b> | 30 Nov 2022 | 19 Sep 2022 | 12 Apr 2022 |
| Machine Hours | <b>5640</b>        | 7050        | 4626        | 3976        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | N/A         | Changed     |
| Sample Status | <b>NORMAL</b>      | ABNORMAL    | NORMAL      | NORMAL      |

### STRONGCO EQUIPMENT INC.

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## OIL CONDITION

|                |     |             |      |      |      |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C   | cSt | <b>13.1</b> | 13.0 | 13.5 | 13.3 |
| Oxidation (PA) | %   | <b>76</b>   | 84   | 82   | 79   |



## CONTAMINATION

|                |     |                |      |      |      |
|----------------|-----|----------------|------|------|------|
| Water          | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Soot %         | %   | <b>0.2</b>     | 0.1  | 0.2  | 0.1  |
| Nitration (PA) | %   | <b>58</b>      | 58   | 63   | 65   |
| Sulfation (PA) | %   | <b>59</b>      | 66   | 63   | 65   |
| Glycol         | %   | <b>NEG</b>     | 0.0  | NEG  | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | <1.0 |
| Silicon        | ppm | <b>9</b>       | 6    | 5    | 8    |
| Sodium         | ppm | <b>3</b>       | 2    | 2    | 2    |
| Potassium      | ppm | <b>11</b>      | 0    | <1   | 1    |

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>42</b>    | 10 | 14 | 19 |
| Copper     | ppm | <b>1</b>     | <1 | <1 | 1  |
| Lead       | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Tin        | ppm | <b>0</b>     | 0  | <1 | <1 |
| Aluminum   | ppm | <b>11</b>    | 4  | 5  | 10 |
| Chromium   | ppm | <b>1</b>     | <1 | <1 | 1  |
| Molybdenum | ppm | <b>44</b>    | 43 | 39 | 36 |
| Nickel     | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Titanium   | ppm | <b>0</b>     | <1 | <1 | 0  |
| Silver     | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Manganese  | ppm | <b>0</b>     | <1 | <1 | <1 |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1807</b> | 1740 | 1740 | 1531 |
| Magnesium  | ppm | <b>528</b>  | 505  | 497  | 565  |
| Zinc       | ppm | <b>1155</b> | 1087 | 1102 | 1070 |
| Phosphorus | ppm | <b>968</b>  | 997  | 1017 | 952  |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>48</b>   | 41   | 34   | 53   |

**Depot:** SHEMIS  
**Unique No:** 5696846  
**Signed:** Wes Davis  
**Report Date:** 18 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

