



# CONSTRUCTION EQUIPMENT

SPM634732-10 VOLVO L70E 61535 - DIESEL ENGINE



**Sample No:** VCP422343  
**Oil Type:** MOBIL 15W40  
**Job No:** SPM634732-10



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP422343</b>   | VCE029776   | VCP151117   | VC542330    |
| Sample Date   | <b>01 Dec 2023</b> | 29 Dec 2018 | 20 Apr 2016 | 18 Jan 2008 |
| Machine Hours | <b>8194</b>        | 26721       | 24661       | 393         |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>N/A</b>         | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | MARGINAL    | NORMAL      | NORMAL      |

**OLD CASTLE LAWN & GARDEN**  
 1963 SW 351 HWY  
 CROSS CITY, FL  
 US 32628  
 Contact: SERVICE MANAGER

## OIL CONDITION

|                  |          |             |       |      |      |
|------------------|----------|-------------|-------|------|------|
| Visc @ 100°C     | cSt      | <b>11.8</b> | 11.04 | 14.8 | 12.3 |
| Base Number (BN) | mg KOH/g | <b>5.9</b>  | ---   | ---  | ---  |
| Oxidation (PA)   | %        | <b>59</b>   | 88    | 40   | 51   |

T: (352)498-7127  
 F:

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## CONTAMINATION

|                |     |                |     |      |      |
|----------------|-----|----------------|-----|------|------|
| Water          | %   | <b>NEG</b>     | NEG | NEG  | NEG  |
| Soot %         | %   | <b>0.5</b>     | 1.5 | 0.8  | 0.6  |
| Nitration (PA) | %   | <b>77</b>      | 95  | 50   | 73   |
| Sulfation (PA) | %   | <b>57</b>      | 72  | 47   | 59   |
| Glycol         | %   | <b>NEG</b>     | NEG | NEG  | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | 4.9 | <1.0 | <1.0 |
| Silicon        | ppm | <b>4</b>       | 6   | 3    | 23   |
| Sodium         | ppm | <b>2</b>       | 11  | 4    | 4    |
| Potassium      | ppm | <b>2</b>       | 4   | 6    | 0    |

## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>8</b>     | 39 | 19 | 57 |
| Copper     | ppm | <b>&lt;1</b> | 2  | <1 | 12 |
| Lead       | ppm | <b>1</b>     | 5  | <1 | 7  |
| Tin        | ppm | <b>&lt;1</b> | 0  | 0  | 2  |
| Aluminum   | ppm | <b>2</b>     | 2  | 2  | 6  |
| Chromium   | ppm | <b>0</b>     | <1 | <1 | 1  |
| Molybdenum | ppm | <b>36</b>    | 5  | 2  | 72 |
| Nickel     | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Titanium   | ppm | <b>14</b>    | 59 | 84 | <1 |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>0</b>     | <1 | <1 | 3  |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |

## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1429</b> | 1320 | 1685 | 2313 |
| Magnesium  | ppm | <b>396</b>  | 242  | 292  | 128  |
| Zinc       | ppm | <b>1083</b> | 842  | 1088 | 1146 |
| Phosphorus | ppm | <b>859</b>  | 689  | 879  | 982  |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>25</b>   | 13   | 32   | 73   |

**Depot:** OLD CRO  
**Unique No:** 10776803  
**Signed:** Wes Davis  
**Report Date:** 07 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

