



# CONSTRUCTION EQUIPMENT

## A12543 VOLVO L180H 4165 - REAR AXLE



**Sample No:** VCP446074  
**Oil Type:** MOBIL WB 102  
**Job No:** A12543



### SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP446074</b>   | VCP440441   | VCP399907   | --- |
| Sample Date   | <b>02 May 2024</b> | 10 Feb 2024 | 21 Feb 2023 | --- |
| Machine Hours | <b>14045</b>       | 13485       | 10932       | --- |
| Oil Hours     | <b>2000</b>        | 0           | 0           | --- |
| Oil Changed   | <b>Not Changd</b>  | Not Changd  | Not Changd  | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | ABNORMAL    | --- |

**WASTE MANAGEMENT - TELFORD**  
 400 PROGRESS DR  
 TELFORD, PA  
 US 18969-1191  
 Contact: EDWARD ROGENER  
 erogener@wm.com  
 T:  
 F:



### OIL CONDITION

|             |     |             |      |      |     |
|-------------|-----|-------------|------|------|-----|
| Visc @ 40°C | cSt | <b>41.9</b> | 41.9 | 41.4 | --- |
|-------------|-----|-------------|------|------|-----|



### CONTAMINATION

|           |     |            |     |     |     |
|-----------|-----|------------|-----|-----|-----|
| Water     | %   | <b>NEG</b> | NEG | NEG | --- |
| Silicon   | ppm | <b>14</b>  | 14  | 18  | --- |
| Sodium    | ppm | <b>0</b>   | 0   | 2   | --- |
| Potassium | ppm | <b>3</b>   | 2   | 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>294</b>   | 325 | 1607 | --- |
| Copper     | ppm | <b>4</b>     | 1   | 2    | --- |
| Lead       | ppm | <b>&lt;1</b> | <1  | <1   | --- |
| Tin        | ppm | <b>&lt;1</b> | <1  | 0    | --- |
| Aluminum   | ppm | <b>2</b>     | 2   | 6    | --- |
| Chromium   | ppm | <b>4</b>     | 4   | 19   | --- |
| Molybdenum | ppm | <b>4</b>     | 4   | 9    | --- |
| Nickel     | ppm | <b>2</b>     | 2   | 7    | --- |
| Titanium   | ppm | <b>&lt;1</b> | <1  | <1   | --- |
| Silver     | ppm | <b>&lt;1</b> | 0   | 0    | --- |
| Manganese  | ppm | <b>4</b>     | 4   | 18   | --- |
| Vanadium   | ppm | <b>&lt;1</b> | <1  | <1   | --- |



### ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>3166</b> | 3809 | 3730 | --- |
| Magnesium  | ppm | <b>13</b>   | 15   | 20   | --- |
| Zinc       | ppm | <b>1358</b> | 1530 | 1451 | --- |
| Phosphorus | ppm | <b>1200</b> | 1128 | 1186 | --- |
| Barium     | ppm | <b>0</b>    | 0    | 0    | --- |
| Boron      | ppm | <b>105</b>  | 113  | 118  | --- |

**Depot:** WASTEL  
**Unique No:** 11033055  
**Signed:** Wes Davis  
**Report Date:** 17 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

