



# CONSTRUCTION EQUIPMENT

G05316 VOLVO L90H 625731 - DIESEL ENGINE



**Sample No:** VCP344162  
**Oil Type:** DIESEL ENGINE OIL SAE 30  
**Job No:** G05316



## SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP344162</b>   | VCP312358   | --- | --- |
| Sample Date   | <b>16 Nov 2021</b> | 01 Jul 2021 | --- | --- |
| Machine Hours | <b>0</b>           | 523         | --- | --- |
| Oil Hours     | <b>0</b>           | 0           | --- | --- |
| Oil Changed   | <b>N/A</b>         | N/A         | --- | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | --- | --- |

IAA - INSURANCE AUTO AUCTIONS - WESTCHESTER VC  
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 WESTCHESTER, IL  
 US 60154  
 Contact: BILLY BUTLER



## OIL CONDITION

|                |     |             |      |     |     |
|----------------|-----|-------------|------|-----|-----|
| Visc @ 100°C   | cSt | <b>12.9</b> | 12.5 | --- | --- |
| Oxidation (PA) | %   | <b>76</b>   | 76   | --- | --- |

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 F:



## CONTAMINATION

|                |     |                |      |     |     |
|----------------|-----|----------------|------|-----|-----|
| Water          | %   | <b>NEG</b>     | NEG  | --- | --- |
| Soot %         | %   | <b>0.6</b>     | 0.4  | --- | --- |
| Nitration (PA) | %   | <b>88</b>      | 60   | --- | --- |
| Sulfation (PA) | %   | <b>61</b>      | 64   | --- | --- |
| Glycol         | %   | <b>NEG</b>     | NEG  | --- | --- |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | --- | --- |
| Silicon        | ppm | <b>7</b>       | 15   | --- | --- |
| Sodium         | ppm | <b>2</b>       | 4    | --- | --- |
| Potassium      | ppm | <b>0</b>       | 1    | --- | --- |

## 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>19</b>    | 36 | --- | --- |
| Copper     | ppm | <b>2</b>     | 8  | --- | --- |
| Lead       | ppm | <b>&lt;1</b> | 1  | --- | --- |
| Tin        | ppm | <b>1</b>     | 2  | --- | --- |
| Aluminum   | ppm | <b>4</b>     | 5  | --- | --- |
| Chromium   | ppm | <b>2</b>     | 2  | --- | --- |
| Molybdenum | ppm | <b>42</b>    | 40 | --- | --- |
| Nickel     | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Titanium   | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Silver     | ppm | <b>0</b>     | 0  | --- | --- |
| Manganese  | ppm | <b>&lt;1</b> | 4  | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0  | --- | --- |



## ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>1710</b> | 1416 | --- | --- |
| Magnesium  | ppm | <b>497</b>  | 562  | --- | --- |
| Zinc       | ppm | <b>1121</b> | 1051 | --- | --- |
| Phosphorus | ppm | <b>908</b>  | 899  | --- | --- |
| Barium     | ppm | <b>0</b>    | <1   | --- | --- |
| Boron      | ppm | <b>40</b>   | 57   | --- | --- |

**Depot:** INSWES  
**Unique No:** 9749451  
**Signed:** Don Baldrige  
**Report Date:** 23 Nov 2021



# CONSTRUCTION EQUIPMENT



## GRAPHS

