



# CONSTRUCTION EQUIPMENT

## B51102 PEPPIN LUMBER PONSSE A010683 - DIESEL ENGINE



**Sample No:** VCP431621  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** B51102 PEPPIN LUMBER



### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP431621   | VCP320378   | --- | --- |
| Sample Date   | 28 Nov 2023 | 20 Aug 2021 | --- | --- |
| Machine Hours | 6448        | 2137        | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Changed     | N/A         | --- | --- |
| Sample Status | ATTENTION   | NORMAL      | --- | --- |

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### OIL CONDITION

|                  |          |        |      |     |     |
|------------------|----------|--------|------|-----|-----|
| Visc @ 100°C     | cSt      | ▲ 11.6 | 12.1 | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 8.5  | ---  | --- | --- |
| Oxidation (PA)   | %        | 88     | 80   | --- | --- |

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Water          | %   | NEG   | NEG   | --- | --- |
| Soot %         | %   | ■ 0.2 | ■ 0.2 | --- | --- |
| Nitration (PA) | %   | 82    | 78    | --- | --- |
| Sulfation (PA) | %   | 57    | 53    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | ■ 0.0 | ■ 0.3 | --- | --- |
| Silicon        | ppm | ■ 5   | ■ 1   | --- | --- |
| Sodium         | ppm | ■ 0   | ■ 1   | --- | --- |
| Potassium      | ppm | ■ 4   | ■ 11  | --- | --- |

### WEAR METALS

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Iron       | ppm | ■ 15 | ■ <1 | --- | --- |
| Copper     | ppm | ■ 1  | ■ 1  | --- | --- |
| Lead       | ppm | ■ 0  | ■ 0  | --- | --- |
| Tin        | ppm | ■ <1 | ■ 0  | --- | --- |
| Aluminum   | ppm | ■ 4  | ■ 6  | --- | --- |
| Chromium   | ppm | ■ <1 | ■ <1 | --- | --- |
| Molybdenum | ppm | ■ 53 | ■ 46 | --- | --- |
| Nickel     | ppm | ■ <1 | ■ 0  | --- | --- |
| Titanium   | ppm | ■ 0  | 0    | --- | --- |
| Silver     | ppm | ■ 0  | ■ <1 | --- | --- |
| Manganese  | ppm | ■ 0  | <1   | --- | --- |
| Vanadium   | ppm | 0    | 0    | --- | --- |

### ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | ■ 1426 | ■ 1407 | --- | --- |
| Magnesium  | ppm | ■ 1004 | ■ 911  | --- | --- |
| Zinc       | ppm | ■ 1010 | ■ 901  | --- | --- |
| Phosphorus | ppm | ■ 790  | 764    | --- | --- |
| Barium     | ppm | ■ 2    | ■ 0    | --- | --- |
| Boron      | ppm | ■ 80   | ■ 81   | --- | --- |

**Depot:** VOLVO0007  
**Unique No:** 10767946  
**Signed:** Jonathan Hester  
**Report Date:** 08 Dec 2023



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## GRAPHS

