



# CONSTRUCTION EQUIPMENT

A12360 OLD CASTLE VOLVO L120H 633555 - DIESEL ENGINE



**Sample No:** VCP430944  
**Oil Type:** MOBIL 15W40  
**Job No:** A12360 OLD CASTLE



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP430944   | --- | --- | --- |
| Sample Date   | 04 Apr 2024 | --- | --- | --- |
| Machine Hours | 1325        | --- | --- | --- |
| Oil Hours     | 500         | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

### HOFFMAN EQUIPMENT - LIONVILLE

120 GORDON DRIVE  
LIONVILLE, PA  
US 19341

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## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | ▲ 12.2 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 7.9  | --- | --- | --- |
| Oxidation (PA)   | %        | 78     | --- | --- | --- |

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. The copper level is abnormal. 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.



## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | ■ 0.3 | --- | --- | --- |
| Nitration (PA) | %   | 69    | --- | --- | --- |
| Sulfation (PA) | %   | 60    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | ■ 0.3 | --- | --- | --- |
| Silicon        | ppm | ■ 8   | --- | --- | --- |
| Sodium         | ppm | ■ 4   | --- | --- | --- |
| Potassium      | ppm | ■ <1  | --- | --- | --- |



## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | ■ 25 | --- | --- | --- |
| Copper     | ppm | ▲ 26 | --- | --- | --- |
| Lead       | ppm | ■ 4  | --- | --- | --- |
| Tin        | ppm | ■ 2  | --- | --- | --- |
| Aluminum   | ppm | ▲ 24 | --- | --- | --- |
| Chromium   | ppm | ■ 2  | --- | --- | --- |
| Molybdenum | ppm | ■ 44 | --- | --- | --- |
| Nickel     | ppm | ■ <1 | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | ■ <1 | --- | --- | --- |
| Manganese  | ppm | ■ 2  | --- | --- | --- |
| Vanadium   | ppm | <1   | --- | --- | --- |



## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 1495 | --- | --- | --- |
| Magnesium  | ppm | ■ 516  | --- | --- | --- |
| Zinc       | ppm | ■ 947  | --- | --- | --- |
| Phosphorus | ppm | ■ 872  | --- | --- | --- |
| Barium     | ppm | 10     | --- | --- | --- |
| Boron      | ppm | ■ 75   | --- | --- | --- |

**Depot:** VOLVO8879  
**Unique No:** 10968729  
**Signed:** Jonathan Hester  
**Report Date:** 17 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

