



# CONSTRUCTION EQUIPMENT

## VOLVO L220H 3093 - DIESEL ENGINE



**Sample No:** VCP447480  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP447480   | --- | --- | --- |
| Sample Date   | 26 Jun 2024 | --- | --- | --- |
| Machine Hours | 23315       | --- | --- | --- |
| Oil Hours     | 203         | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

**SCHILDBERG CONSTRUCTION COMPANY**  
 PO BOX 358  
 GREENFIELD, IA  
 US 50849  
 Contact: SCOTT ARMSTRONG  
 sarmstrong@schildberg.com  
 T: (641)743-8237  
 F: (641)743-2486



### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 12.3 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.3 | --- | --- | --- |
| Oxidation (PA)   | %        | 78     | --- | --- | --- |

### Diagnosis

No corrective action is recommended at this time. 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 49    | --- | --- | --- |
| Sulfation (PA) | %   | 60    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | █ 0.3 | --- | --- | --- |
| Silicon        | ppm | █ 5   | --- | --- | --- |
| Sodium         | ppm | █ 2   | --- | --- | --- |
| Potassium      | ppm | █ 1   | --- | --- | --- |



### WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | █ 3   | --- | --- | --- |
| Copper     | ppm | █ 8   | --- | --- | --- |
| Lead       | ppm | █ 0   | --- | --- | --- |
| Tin        | ppm | █ 0   | --- | --- | --- |
| Aluminum   | ppm | █ 2   | --- | --- | --- |
| Chromium   | ppm | █ < 1 | --- | --- | --- |
| Molybdenum | ppm | █ 40  | --- | --- | --- |
| Nickel     | ppm | █ 0   | --- | --- | --- |
| Titanium   | ppm | 0     | --- | --- | --- |
| Silver     | ppm | █ 0   | --- | --- | --- |
| Manganese  | ppm | █ 0   | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |



### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1550 | --- | --- | --- |
| Magnesium  | ppm | █ 473  | --- | --- | --- |
| Zinc       | ppm | █ 1055 | --- | --- | --- |
| Phosphorus | ppm | █ 887  | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 61   | --- | --- | --- |

**Depot:** SCHGRE  
**Unique No:** 11110463  
**Signed:** Wes Davis  
**Report Date:** 08 Jul 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

