



# CONSTRUCTION EQUIPMENT

## X58407 VOLVO EC380EL 314998 - DIESEL ENGINE



**Sample No:** VCP413360

**Oil Type:** NOT GIVEN

**Job No:** X58407



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP413360</b>   | VCP384338   | --- | --- |
| Sample Date   | <b>11 Aug 2023</b> | 26 Apr 2023 | --- | --- |
| Machine Hours | <b>1084</b>        | 579         | --- | --- |
| Oil Hours     | <b>0</b>           | 0           | --- | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | --- | --- |
| Sample Status | <b>MARGINAL</b>    | ABNORMAL    | --- | --- |



**SCOTT EQUIPMENT COMPANY LLC - Saint Rose**  
 PO BOX 997  
 SAINT ROSE, LA  
 US 70087  
 Contact: DENISE CORVERS  
 dcorvers@scottcompanies.com  
 T: (504)461-0961  
 F: (504)461-0970



### OIL CONDITION

|                  |          |             |     |     |     |
|------------------|----------|-------------|-----|-----|-----|
| Visc @ 100°C     | cSt      | <b>12.2</b> | 9.4 | --- | --- |
| Base Number (BN) | mg KOH/g | <b>7.7</b>  | 5.8 | --- | --- |
| Oxidation (PA)   | %        | <b>85</b>   | 62  | --- | --- |



### CONTAMINATION

|                |     |                |     |     |     |
|----------------|-----|----------------|-----|-----|-----|
| Soot %         | %   | <b>0.1</b>     | 0.1 | --- | --- |
| Nitration (PA) | %   | <b>73</b>      | 87  | --- | --- |
| Sulfation (PA) | %   | <b>63</b>      | 53  | --- | --- |
| Glycol         | %   | <b>NEG</b>     | NEG | --- | --- |
| Fuel           | %   | <b>&lt;1.0</b> | 0.8 | --- | --- |
| Silicon        | ppm | <b>7</b>       | 19  | --- | --- |
| Sodium         | ppm | <b>0</b>       | 3   | --- | --- |
| Potassium      | ppm | <b>1</b>       | 4   | --- | --- |



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>6</b>     | 12  | --- | --- |
| Copper     | ppm | <b>39</b>    | 277 | --- | --- |
| Lead       | ppm | <b>&lt;1</b> | <1  | --- | --- |
| Tin        | ppm | <b>1</b>     | 3   | --- | --- |
| Aluminum   | ppm | <b>1</b>     | 2   | --- | --- |
| Chromium   | ppm | <b>&lt;1</b> | 0   | --- | --- |
| Molybdenum | ppm | <b>49</b>    | 102 | --- | --- |
| Nickel     | ppm | <b>&lt;1</b> | 0   | --- | --- |
| Titanium   | ppm | <b>0</b>     | 0   | --- | --- |
| Silver     | ppm | <b>0</b>     | 0   | --- | --- |
| Manganese  | ppm | <b>&lt;1</b> | 4   | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | --- | --- |



### ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>1587</b> | 2082 | --- | --- |
| Magnesium  | ppm | <b>541</b>  | 234  | --- | --- |
| Zinc       | ppm | <b>1145</b> | 1273 | --- | --- |
| Phosphorus | ppm | <b>930</b>  | 1018 | --- | --- |
| Barium     | ppm | <b>0</b>    | 0    | --- | --- |
| Boron      | ppm | <b>13</b>   | 44   | --- | --- |

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level has decreased, but is still abnormal. 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 acceptable for the time in service.

**Depot:** SCOSAI  
**Unique No:** 10606501  
**Signed:** Jonathan Hester  
**Report Date:** 18 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

