# CONSTRUCTION EQUIPMENT
## SWA410173-30    NOT GIVEN VCP419922 - SWA40173-30 (S/N NO INFO GIVEN) - DIESEL ENGINE

**Sample No:** VCP419922

**Oil Type:** NOT GIVEN

**Job No:** SWA410173-30

## SAMPLE INFORMATION

| Sample Number | | VCP419922 | --- | --- | --- |
|---|---|---|---|---|---|
| Sample Date | | 16 Nov 2023 | --- | --- | --- |
| Machine Hours | | 0 | --- | --- | --- |
| Oil Hours | | 0 | --- | --- | --- |
| Oil Changed | | N/A | --- | --- | --- |
| Sample Status | | NORMAL | --- | --- | --- |

## OIL CONDITION

| Visc @ 100°C | cSt | 12.1 | --- | --- | --- |
|---|---|---|---|---|---|
| Base Number (BN) | mg KOH/g | 7.2 | --- | --- | --- |
| Oxidation (PA) | % | 95 | --- | --- | --- |

## CONTAMINATION

| Water | % | NEG | --- | --- | --- |
|---|---|---|---|---|---|
| Soot % | % | 0.1 | --- | --- | --- |
| Nitration (PA) | % | 94 | --- | --- | --- |
| Sulfation (PA) | % | 64 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | 0.2 | --- | --- | --- |
| Silicon | ppm | 12 | --- | --- | --- |
| Sodium | ppm | 3 | --- | --- | --- |
| Potassium | ppm | 5 | --- | --- | --- |

## WEAR METALS

| Iron | ppm | 18 | --- | --- | --- |
|---|---|---|---|---|---|
| Copper | ppm | 133 | --- | --- | --- |
| Lead | ppm | 0 | --- | --- | --- |
| Tin | ppm | <1 | --- | --- | --- |
| Aluminum | ppm | 2 | --- | --- | --- |
| Chromium | ppm | <1 | --- | --- | --- |
| Molybdenum | ppm | 45 | --- | --- | --- |
| Nickel | ppm | <1 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | 2 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

## ADDITIVES

| Calcium | ppm | 1940 | --- | --- | --- |
|---|---|---|---|---|---|
| Magnesium | ppm | 474 | --- | --- | --- |
| Zinc | ppm | 1139 | --- | --- | --- |
| Phosphorus | ppm | 882 | --- | --- | --- |
| Barium | ppm | 0 | --- | --- | --- |
| Boron | ppm | 21 | --- | --- | --- |

**ALTA EQUIPMENT COMPANY**

5210 REESE ROAD
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Contact: GERMAN BLANDON
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## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil.  Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample. 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.

| Depot: | VOLVO0095 |
|---|---|
| **Unique No:** | 10751300 |
| **Signed:** | Wes Davis |
| **Report Date:** | 22 Nov 2023 |

Report Id: VOLVO0095 [WUSCAR] 06012156 (Generated: 11/22/2023 12:58:01) Rev: 1                    Contact/Location: GERMAN BLANDON - VOLVO0095

Page 1 of 2

## GRAPHS

### Iron (ppm)

Severe — 200
Abnormal — 100

Nov16/23 — Nov16/23

### Lead (ppm)

Severe — 80
Abnormal — 40

Nov16/23 — Nov16/23

### Aluminum (ppm)

Severe — 40
Abnormal — 20

Nov16/23 — Nov16/23

### Chromium (ppm)

Severe — 40
Abnormal — 20

Nov16/23 — Nov16/23

### Copper (ppm)

Severe — 350
Abnormal — 330

Nov16/23 — Nov16/23

### Silicon (ppm)

Severe — 75
Abnormal — 25

Nov16/23 — Nov16/23

### Viscosity @ 100°C

Abnormal — 16.5
Abnormal — 12.5

Nov16/23 — Nov16/23

### Base Number

Nov16/23 — Nov16/23