**CONSTRUCTION EQUIPMENT** VOLVO A30G 753002 - DIESEL ENGINE 580245

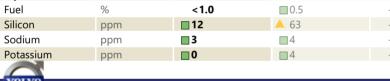


#### Sample No: VCP425082

VOLVO

| Oil Type: | VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 |
|-----------|-------------------------------------------|
| Job No:   | 580245                                    |

#### SAMPLE INFORMATION VCP425082 Sample Number VCP398666 Sample Date 17 Jul 2023 05 May 2023 Machine Hours 885 381 Oil Hours 0 0 Oil Changed Changed Changed ABNORMAL ABNORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt **12.3 11.07** Base Number (BN) mg KOH/g 9.1 7.1 Oxidation (PA) 76 57 % CONTAMINATION 0.3 % 0.2 Soot % Nitration (PA) % 66 83 Sulfation (PA) % 61 51 % NEG Glycol NEG Fuel



### WEAD METALS

Silicon

| WEAR M     | ICIALS |              |             |      |
|------------|--------|--------------|-------------|------|
| Iron       | ppm    | 9            | 18          | <br> |
| Copper     | ppm    | 🔺 106        | ▲ 350       | <br> |
| Lead       | ppm    | ■ <1         | 2           | <br> |
| Tin        | ppm    |              | 3           | <br> |
| Aluminum   | ppm    | <b>  </b> <1 | <b></b> < 1 | <br> |
| Chromium   | ppm    |              | <1          | <br> |
| Molybdenum | ppm    | 55           | 85          | <br> |
| Nickel     | ppm    |              | 2           | <br> |
| Titanium   | ppm    | <1           | <1          | <br> |
| Silver     | ppm    | <b>□</b> <1  | 2           | <br> |
| Manganese  | ppm    | <b>1</b>     | 4           | <br> |
| Vanadium   | ppm    | <1           | <1          | <br> |

| Calcium      |     |             |      |      |
|--------------|-----|-------------|------|------|
| Calcium      | ppm | <b>1952</b> | 2182 | <br> |
| Magnesium p  | ppm | 444         | 18   | <br> |
| Zinc p       | ppm | <b>1178</b> | 1198 | <br> |
| Phosphorus p | ppm | 998         | 1006 | <br> |
| Barium p     | ppm | 0           | 0    | <br> |
| Boron        | ppm | 33          | 37   | <br> |



**BLUE GOOSE GROWERS** 16059 W ORANGE AVE

FT PIERCE, FL US 34945 Contact: SERVICE MANAGER

T: (772)461-3020 F:

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other 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.

Depot: BLUFOR Unique No: 10565416 Signed: Don Baldridge Report Date: 25 Jul 2023

Report Id: BLUFOR [WUSCAR] 05904060 (Generated: 07/26/2023 07:03:49) Rev: 1

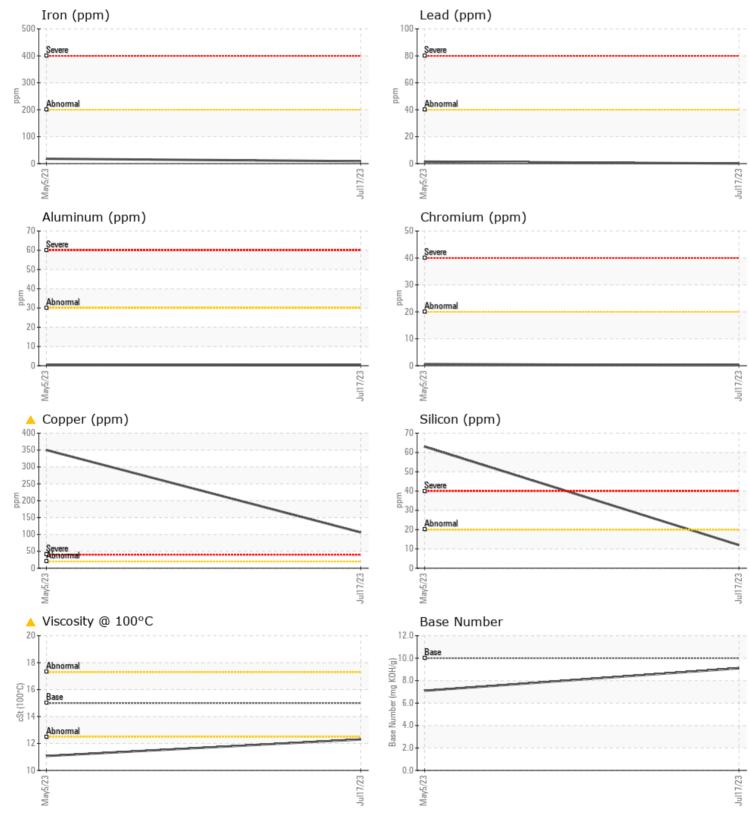
Contact/Location: SERVICE MANAGER - BLUFOR

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: BLUFOR [WUSCAR] 05904060 (Generated: 07/26/2023 07:03:51) Rev: 1

Contact/Location: SERVICE MANAGER - BLUFOR