## CONSTRUCTION EQUIPMENT 716767 HILLSBOROUGH VOLVO EW 160E 324250 - DIESEL ENGINE

Sample No: VCP445564

VOLVO

| Oil Type: | VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 |
|-----------|---|
| Job No:   | 716767 HILLSBOROUGH                       |

## SAMPLE INFORMATION VCP445564 Sample Number Sample Date 23 May 2024 Machine Hours 1002 Oil Hours 500 Changed Oil Changed ATTENTION Sample Status **OIL CONDITION** Visc @ 100°C cSt 10.8 Base Number (BN) mg KOH/g 8.7 Oxidation (PA) 80 % CONTAMINATION % NEG Water % Soot % 0.1

| 5000 /0        | /0  |            |      |  |
|----------------|-----|------------|------|--|
| Nitration (PA) | %   | 62         | <br> |  |
| Sulfation (PA) | %   | 58         | <br> |  |
| Glycol         | %   | NEG        | <br> |  |
| Fuel           | %   | 0.4        | <br> |  |
| Silicon        | ppm | <b>1</b> 4 | <br> |  |
| Sodium         | ppm | 3          | <br> |  |
| Potassium      | ppm | 2          | <br> |  |

| WLAK I     | METALS |          |      |  |
|------------|--------|----------|------|--|
| Iron       | ppm    | 17       | <br> |  |
| Copper     | ppm    | 5        | <br> |  |
| Lead       | ppm    | 0        | <br> |  |
| Tin        | ppm    | 0        | <br> |  |
| Aluminum   | ppm    | 2        | <br> |  |
| Chromium   | ppm    |          | <br> |  |
| Molybdenum | ppm    | 35       | <br> |  |
| Nickel     | ppm    | <b>4</b> | <br> |  |
| Titanium   | ppm    | 0        | <br> |  |
| Silver     | ppm    | 0        | <br> |  |
| Manganese  | ppm    | 2        | <br> |  |
| Vanadium   | ppm    | 0        | <br> |  |

| ADDITI     | VES |             |      |  |
|------------|-----|-------------|------|--|
| Calcium    | ppm | 1553        | <br> |  |
| Magnesium  | ppm | <b>499</b>  | <br> |  |
| Zinc       | ppm | <b>1017</b> | <br> |  |
| Phosphorus | ppm | 897         | <br> |  |
| Barium     | ppm | □ <1        | <br> |  |
| Boron      | ppm | 24          | <br> |  |

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

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## Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

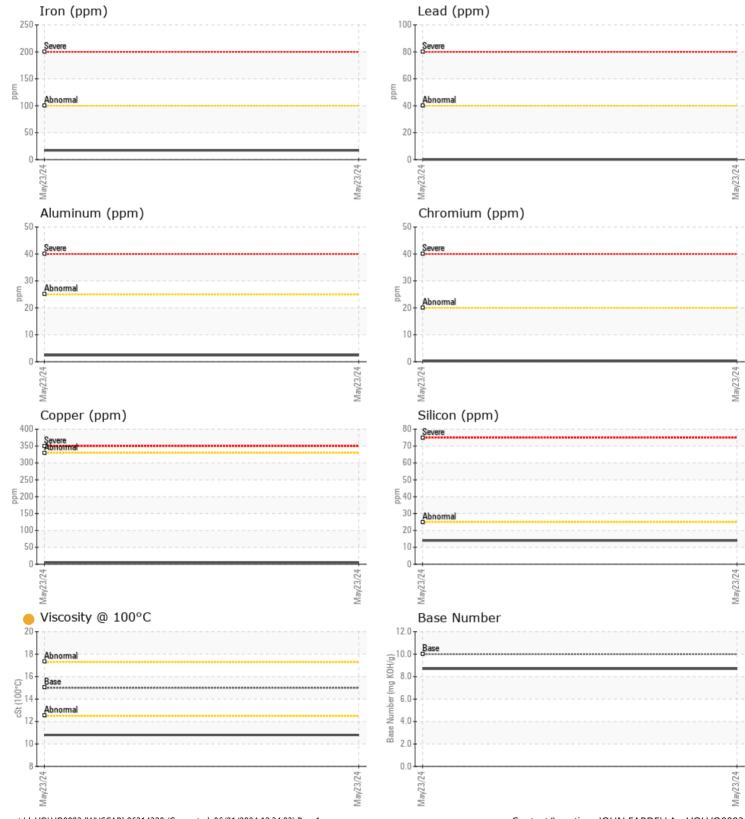
Depot: VOLVO0093 Unique No: 11087192 Signed: Don Baldridge Report Date: 21 Jun 2024

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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Contact/Location: JOHN FARDELLA - VOLVO0093