



# CONSTRUCTION EQUIPMENT

687253 RENTALS VOLVO A25G 752572 - DIESEL ENGINE



**Sample No:** VCP453912  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 687253 RENTALS



## SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP453912   | VCP417623   | --- | --- |
| Sample Date   | 08 Mar 2024 | 11 Jul 2023 | --- | --- |
| Machine Hours | 1305        | 421         | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Changed     | Changed     | --- | --- |
| Sample Status | ABNORMAL    | ABNORMAL    | --- | --- |

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## OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | ● 12.3 | ● 10.6 | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 6.4  | ■ 6.6  | --- | --- |
| Oxidation (PA)   | %        | ■ 91   | ■ 56   | --- | --- |



## CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Water          | %   | NEG   | NEG   | --- | --- |
| Soot %         | %   | ■ 0.6 | ■ 0.2 | --- | --- |
| Nitration (PA) | %   | ■ 93  | ■ 83  | --- | --- |
| Sulfation (PA) | %   | ■ 66  | ■ 51  | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | <1.0  | ■ 0.8 | --- | --- |
| Silicon        | ppm | ■ 18  | ▲ 68  | --- | --- |
| Sodium         | ppm | ■ 0   | ■ 4   | --- | --- |
| Potassium      | ppm | ■ 4   | ■ <1  | --- | --- |



## WEAR METALS

|            |     |       |       |     |     |
|------------|-----|-------|-------|-----|-----|
| Iron       | ppm | ■ 34  | ■ 24  | --- | --- |
| Copper     | ppm | ▲ 100 | ▲ 382 | --- | --- |
| Lead       | ppm | ■ 3   | ■ 4   | --- | --- |
| Tin        | ppm | ■ 4   | ■ 2   | --- | --- |
| Aluminum   | ppm | ■ 5   | ■ 2   | --- | --- |
| Chromium   | ppm | ■ 2   | ■ <1  | --- | --- |
| Molybdenum | ppm | ■ 53  | ■ 88  | --- | --- |
| Nickel     | ppm | ▲ 18  | ■ 2   | --- | --- |
| Titanium   | ppm | <1    | <1    | --- | --- |
| Silver     | ppm | ■ <1  | ■ 1   | --- | --- |
| Manganese  | ppm | ■ 3   | ■ 5   | --- | --- |
| Vanadium   | ppm | <1    | <1    | --- | --- |



## ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | ■ 1900 | ■ 2347 | --- | --- |
| Magnesium  | ppm | ■ 442  | ■ 15   | --- | --- |
| Zinc       | ppm | ■ 1111 | ■ 1215 | --- | --- |
| Phosphorus | ppm | ■ 1086 | ■ 1043 | --- | --- |
| Barium     | ppm | ■ <1   | ■ 0    | --- | --- |
| Boron      | ppm | ■ 15   | ■ 46   | --- | --- |

## Diagnosis

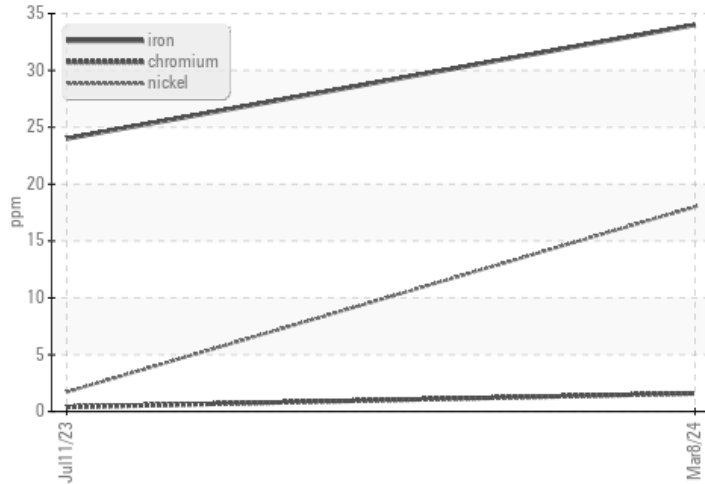
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. Exhaust valve wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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:** 10941024  
**Signed:** Sean Felton  
**Report Date:** 26 Mar 2024

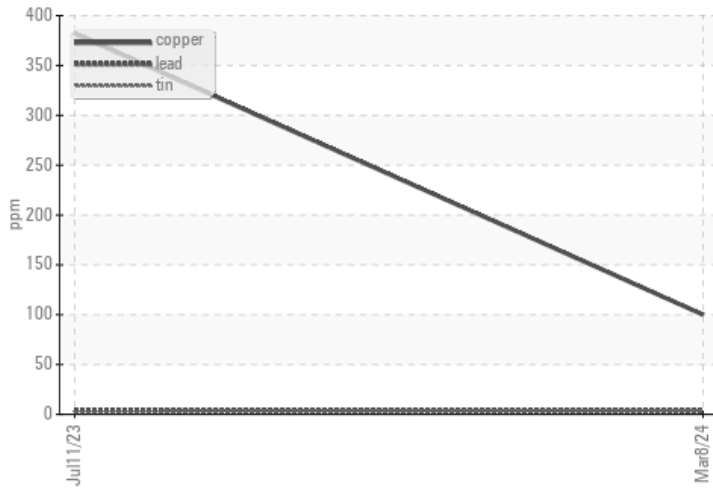


## GRAPHS

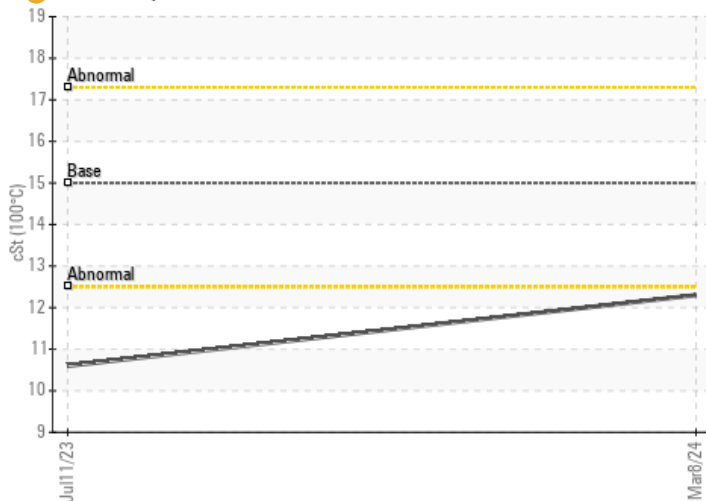
### ▲ Ferrous Alloys



### ▲ Non-ferrous Metals



### ● Viscosity @ 100°C



### Base Number

