



# CONSTRUCTION EQUIPMENT - DROP BOX



**Sample No:** VCP455340  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



## SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP455340   | VCP395763   | --- | --- |
| Sample Date   | 06 Jun 2024 | 25 Feb 2023 | --- | --- |
| Machine Hours | 4000        | 2203        | --- | --- |
| Oil Hours     | 0           | 1000        | --- | --- |
| Oil Changed   | Changed     | Not Changd  | --- | --- |
| Sample Status | ABNORMAL    | NORMAL      | --- | --- |

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## OIL CONDITION

|             |     |      |      |     |     |
|-------------|-----|------|------|-----|-----|
| Visc @ 40°C | cSt | 50.0 | 49.3 | --- | --- |
|-------------|-----|------|------|-----|-----|



## CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Water     | %   | NEG | NEG | --- | --- |
| Silicon   | ppm | 33  | 6   | --- | --- |
| Sodium    | ppm | 11  | 3   | --- | --- |
| Potassium | ppm | 8   | 3   | --- | --- |



## WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | 355 | 366 | --- | --- |
| Copper     | ppm | 42  | 2   | --- | --- |
| Lead       | ppm | 4   | 0   | --- | --- |
| Tin        | ppm | 2   | 0   | --- | --- |
| Aluminum   | ppm | 1   | 1   | --- | --- |
| Chromium   | ppm | 4   | 5   | --- | --- |
| Molybdenum | ppm | 19  | 7   | --- | --- |
| Nickel     | ppm | 1   | <1  | --- | --- |
| Titanium   | ppm | 0   | 0   | --- | --- |
| Silver     | ppm | 0   | 0   | --- | --- |
| Manganese  | ppm | 12  | 14  | --- | --- |
| Vanadium   | ppm | 0   | 0   | --- | --- |



## ADDITIVES

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Calcium    | ppm | 79   | 14   | --- | --- |
| Magnesium  | ppm | 7    | 0    | --- | --- |
| Zinc       | ppm | 160  | 9    | --- | --- |
| Phosphorus | ppm | 2030 | 2295 | --- | --- |
| Barium     | ppm | 0    | 0    | --- | --- |
| Boron      | ppm | 116  | 123  | --- | --- |

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is lower than normal. Confirm oil type.

**Depot:** VOLVO0090  
**Unique No:** 11074364  
**Signed:** Don Baldrige  
**Report Date:** 13 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

