



# CONSTRUCTION EQUIPMENT

659887 APTIM VOLVO A35G 340139 - FRONT AXLE



**Sample No:** VCP428741  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 659887 APTIM



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## SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP428741</b>   | VCP392524   | VCP392555   | --- |
| Sample Date   | <b>11 Jan 2024</b> | 23 May 2023 | 09 Feb 2023 | --- |
| Machine Hours | <b>12883</b>       | 11970       | 11400       | --- |
| Oil Hours     | <b>1000</b>        | 4000        | 2000        | --- |
| Oil Changed   | <b>Not Chngd</b>   | Changed     | Not Chngd   | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | --- |



## OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>252</b> | 132 | 132 | --- |
|-------------|-----|------------|-----|-----|-----|



## CONTAMINATION

|           |     |              |     |     |     |
|-----------|-----|--------------|-----|-----|-----|
| Water     | %   | <b>NEG</b>   | NEG | NEG | --- |
| Silicon   | ppm | <b>5</b>     | 12  | 13  | --- |
| Sodium    | ppm | <b>0</b>     | 1   | 1   | --- |
| Potassium | ppm | <b>&lt;1</b> | 0   | <1  | --- |



## WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>103</b>   | 262 | 330 | --- |
| Copper     | ppm | <b>2</b>     | 9   | 8   | --- |
| Lead       | ppm | <b>0</b>     | 0   | 0   | --- |
| Tin        | ppm | <b>0</b>     | 0   | 0   | --- |
| Aluminum   | ppm | <b>2</b>     | 2   | 4   | --- |
| Chromium   | ppm | <b>&lt;1</b> | 3   | 4   | --- |
| Molybdenum | ppm | <b>18</b>    | 4   | 4   | --- |
| Nickel     | ppm | <b>&lt;1</b> | <1  | 1   | --- |
| Titanium   | ppm | <b>&lt;1</b> | <1  | <1  | --- |
| Silver     | ppm | <b>0</b>     | 0   | 0   | --- |
| Manganese  | ppm | <b>2</b>     | 15  | 15  | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | --- |



## ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>200</b>  | 63   | 50   | --- |
| Magnesium  | ppm | <b>55</b>   | 0    | <1   | --- |
| Zinc       | ppm | <b>125</b>  | 41   | 45   | --- |
| Phosphorus | ppm | <b>1064</b> | 1122 | 1011 | --- |
| Barium     | ppm | <b>10</b>   | 0    | 1    | --- |
| Boron      | ppm | <b>167</b>  | 167  | 168  | --- |

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0093  
**Unique No:** 10886644  
**Signed:** Wes Davis  
**Report Date:** 21 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

