



# CONSTRUCTION EQUIPMENT

## VOLVO EC380 314840 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP420010  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP420010</b>   | VCP415808   | VCP395869   | VCP363893   |
| Sample Date   | <b>06 Jul 2023</b> | 06 Jul 2023 | 31 Jan 2023 | 27 Aug 2022 |
| Machine Hours | <b>3195</b>        | 3195        | 1849        | 1084        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | NORMAL      | NORMAL      |

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### OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>273</b> | 264 | 238 | 163 |
|-------------|-----|------------|-----|-----|-----|

### CONTAMINATION

|           |     |              |       |    |    |
|-----------|-----|--------------|-------|----|----|
| Silicon   | ppm | <b>▲ 148</b> | ▲ 106 | 53 | 16 |
| Sodium    | ppm | <b>■ 0</b>   | 0     | 2  | 0  |
| Potassium | ppm | <b>■ 3</b>   | 2     | 1  | 2  |

### WEAR METALS

|            |     |              |       |     |     |
|------------|-----|--------------|-------|-----|-----|
| Iron       | ppm | <b>▲ 768</b> | ▲ 716 | 275 | 342 |
| Copper     | ppm | <b>■ 1</b>   | 2     | <1  | <1  |
| Lead       | ppm | <b>■ 0</b>   | 0     | 0   | <1  |
| Tin        | ppm | <b>■ 0</b>   | 0     | <1  | 0   |
| Aluminum   | ppm | <b>■ 18</b>  | 12    | 5   | 4   |
| Chromium   | ppm | <b>▲ 27</b>  | ▲ 21  | 12  | 7   |
| Molybdenum | ppm | <b>■ 8</b>   | 8     | 8   | <1  |
| Nickel     | ppm | <b>■ 2</b>   | 2     | <1  | 0   |
| Titanium   | ppm | <b>1</b>     | <1    | <1  | <1  |
| Silver     | ppm | <b>0</b>     | 0     | <1  | 0   |
| Manganese  | ppm | <b>■ 8</b>   | 7     | 4   | 6   |
| Vanadium   | ppm | <b>0</b>     | 0     | 0   | 0   |

### ADDITIVES

|            |     |               |      |     |     |
|------------|-----|---------------|------|-----|-----|
| Calcium    | ppm | <b>■ 117</b>  | 142  | 113 | 30  |
| Magnesium  | ppm | <b>■ 31</b>   | 32   | 33  | 1   |
| Zinc       | ppm | <b>■ 81</b>   | 95   | 79  | 16  |
| Phosphorus | ppm | <b>■ 1069</b> | 1024 | 862 | 269 |
| Barium     | ppm | <b>■ 2</b>    | 2    | 0   | 3   |
| Boron      | ppm | <b>■ 194</b>  | 171  | 112 | <1  |

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Chromium and iron ppm levels are abnormal. Gear wear is indicated. There is a moderate concentration of dirt present in the oil. There is a high amount of visible silt present in the sample. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** VOLVO0090  
**Unique No:** 10551623  
**Signed:** Angela Borella  
**Report Date:** 13 Jul 2023

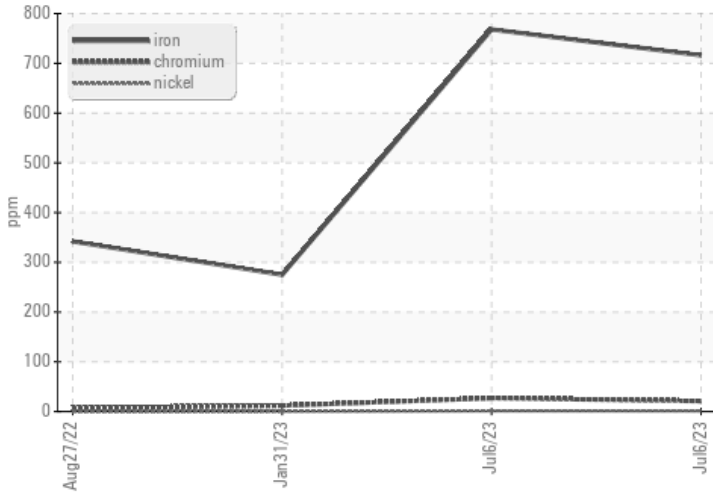


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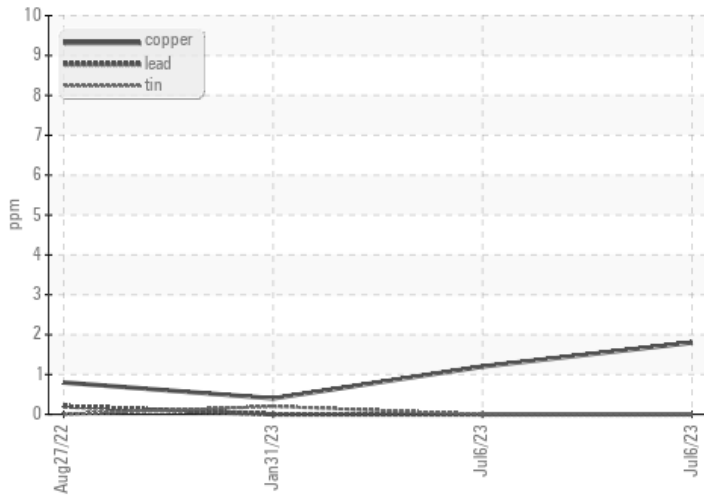


## GRAPHS

### ▲ Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

