



# CONSTRUCTION EQUIPMENT

## VFS VOLVO A40G 342632 - BRAKE COOLING SYSTEM



**Sample No:** VCP428508  
**Oil Type:** CHEVRON 1000 THF  
**Job No:** VFS



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP428508</b>   | VCP348938   | --- | --- |
| Sample Date   | <b>29 Apr 2024</b> | 03 Feb 2022 | --- | --- |
| Machine Hours | <b>7835</b>        | 6440        | --- | --- |
| Oil Hours     | <b>0</b>           | 0           | --- | --- |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | --- | --- |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | --- | --- |

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### OIL CONDITION

|             |     |             |      |     |     |
|-------------|-----|-------------|------|-----|-----|
| Visc @ 40°C | cSt | <b>44.8</b> | 44.2 | --- | --- |
|-------------|-----|-------------|------|-----|-----|



### CONTAMINATION

|           |     |            |     |     |     |
|-----------|-----|------------|-----|-----|-----|
| Water     | %   | <b>NEG</b> | NEG | --- | --- |
| Silicon   | ppm | <b>17</b>  | 19  | --- | --- |
| Sodium    | ppm | <b>7</b>   | 7   | --- | --- |
| Potassium | ppm | <b>2</b>   | 2   | --- | --- |

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>33</b>    | 35  | --- | --- |
| Copper     | ppm | <b>210</b>   | 204 | --- | --- |
| Lead       | ppm | <b>&lt;1</b> | 1   | --- | --- |
| Tin        | ppm | <b>&lt;1</b> | <1  | --- | --- |
| Aluminum   | ppm | <b>2</b>     | 1   | --- | --- |
| Chromium   | ppm | <b>1</b>     | 1   | --- | --- |
| Molybdenum | ppm | <b>2</b>     | 1   | --- | --- |
| Nickel     | ppm | <b>3</b>     | 5   | --- | --- |
| Titanium   | ppm | <b>&lt;1</b> | <1  | --- | --- |
| Silver     | ppm | <b>0</b>     | 0   | --- | --- |
| Manganese  | ppm | <b>2</b>     | 2   | --- | --- |
| Vanadium   | ppm | <b>&lt;1</b> | 0   | --- | --- |



### ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>3711</b> | 3780 | --- | --- |
| Magnesium  | ppm | <b>29</b>   | 24   | --- | --- |
| Zinc       | ppm | <b>1544</b> | 1549 | --- | --- |
| Phosphorus | ppm | <b>1445</b> | 1355 | --- | --- |
| Barium     | ppm | <b>0</b>    | 0    | --- | --- |
| Boron      | ppm | <b>156</b>  | 115  | --- | --- |

**Depot:** VOLVO0081  
**Unique No:** 11021916  
**Signed:** Sean Felton  
**Report Date:** 14 May 2024

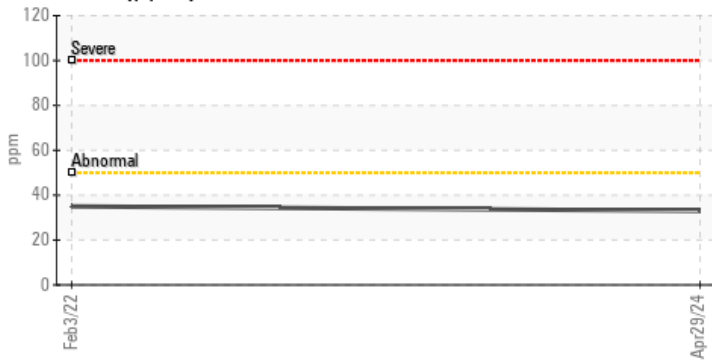


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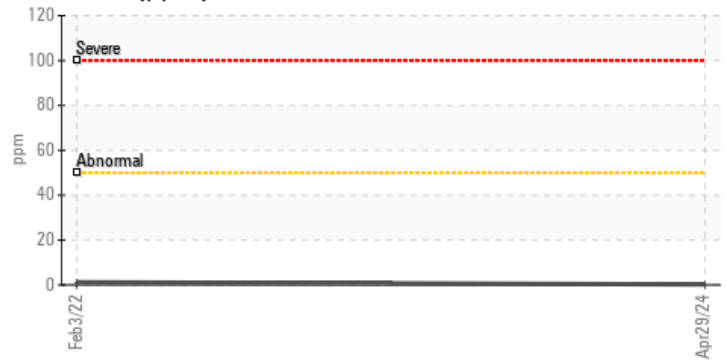


## GRAPHS

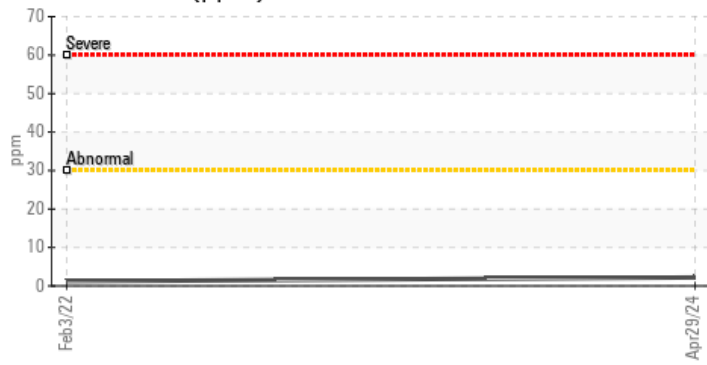
### Iron (ppm)



### Lead (ppm)



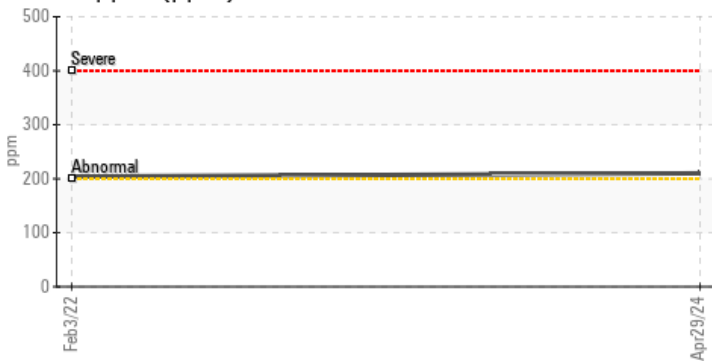
### Aluminum (ppm)



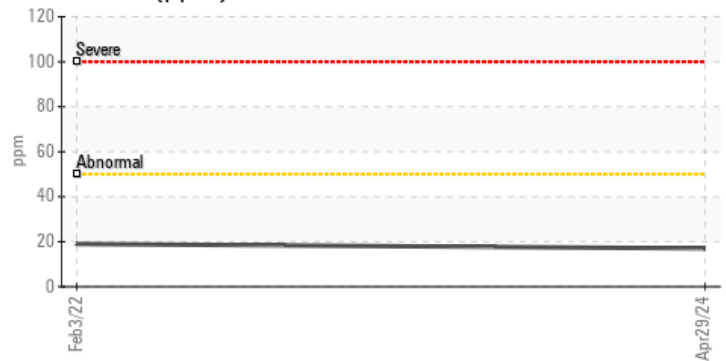
### Chromium (ppm)



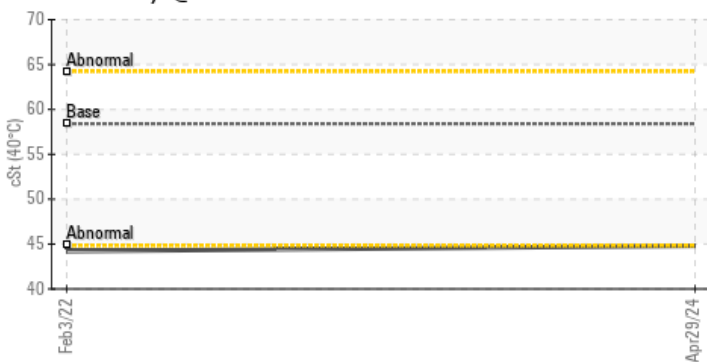
### ▲ Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

