



# CONSTRUCTION EQUIPMENT

## 580446 VOLVO A30G 740270 - BRAKE COOLING SYSTEM



**Sample No:** VCP411828  
**Oil Type:** VOLVO WB 102  
**Job No:** 580446



### SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP411828</b>   | VCP424019   | VCP354555   | --- |
| Sample Date   | <b>25 Jul 2023</b> | 19 May 2023 | 01 Jun 2022 | --- |
| Machine Hours | <b>11247</b>       | 11051       | 9479        | --- |
| Oil Hours     | <b>2000</b>        | 0           | 1000        | --- |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   | --- |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    | --- |

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
rtturner@ripatampa.com  
T:  
F:



### OIL CONDITION

|             |     |             |      |      |     |
|-------------|-----|-------------|------|------|-----|
| Visc @ 40°C | cSt | <b>47.1</b> | 45.8 | 43.0 | --- |
|-------------|-----|-------------|------|------|-----|



### CONTAMINATION

|           |     |              |       |       |     |
|-----------|-----|--------------|-------|-------|-----|
| Water     | %   | <b>0.264</b> | 0.467 | 0.444 | --- |
| Silicon   | ppm | <b>15</b>    | 16    | 15    | --- |
| Sodium    | ppm | <b>2</b>     | 12    | 8     | --- |
| Potassium | ppm | <b>&lt;1</b> | <1    | 1     | --- |



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>11</b>    | 20  | 5   | --- |
| Copper     | ppm | <b>108</b>   | 170 | 101 | --- |
| Lead       | ppm | <b>&lt;1</b> | 2   | <1  | --- |
| Tin        | ppm | <b>0</b>     | <1  | 0   | --- |
| Aluminum   | ppm | <b>3</b>     | 0   | <1  | --- |
| Chromium   | ppm | <b>&lt;1</b> | 0   | <1  | --- |
| Molybdenum | ppm | <b>&lt;1</b> | <1  | <1  | --- |
| Nickel     | ppm | <b>1</b>     | 2   | 0   | --- |
| Titanium   | ppm | <b>&lt;1</b> | <1  | <1  | --- |
| Silver     | ppm | <b>0</b>     | 0   | <1  | --- |
| Manganese  | ppm | <b>&lt;1</b> | 1   | <1  | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | --- |



### ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>3829</b> | 3875 | 3862 | --- |
| Magnesium  | ppm | <b>18</b>   | 24   | 12   | --- |
| Zinc       | ppm | <b>1523</b> | 1524 | 1638 | --- |
| Phosphorus | ppm | <b>1291</b> | 1238 | 1303 | --- |
| Barium     | ppm | <b>1</b>    | 0    | 0    | --- |
| Boron      | ppm | <b>147</b>  | 143  | 150  | --- |

### Diagnosis

We advise that you check for the source of water entry. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is unacceptable. There is a light concentration of water present in the fluid. The condition of the fluid is acceptable for the time in service.

**Depot:** RIPTAM  
**Unique No:** 10602479  
**Signed:** Sean Felton  
**Report Date:** 14 Aug 2023

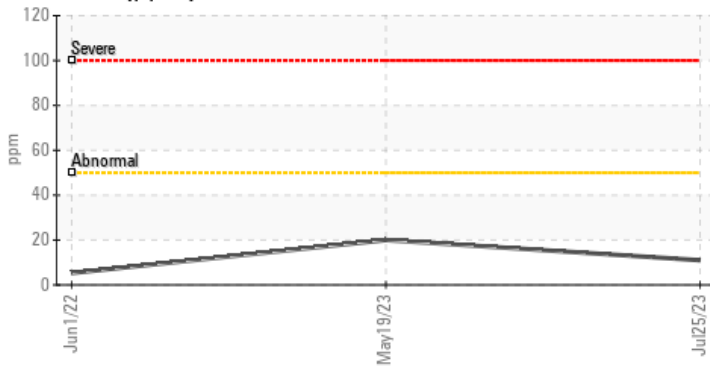


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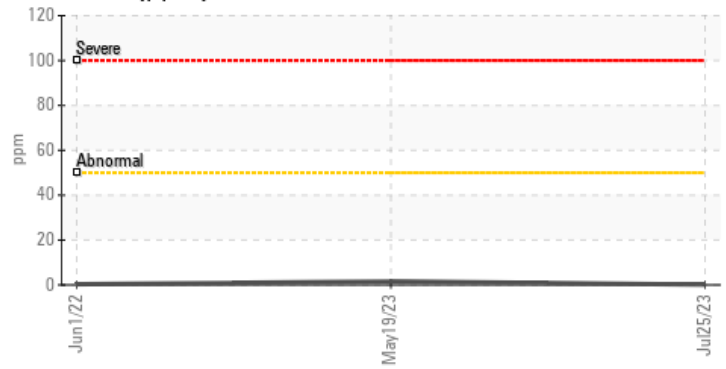


## GRAPHS

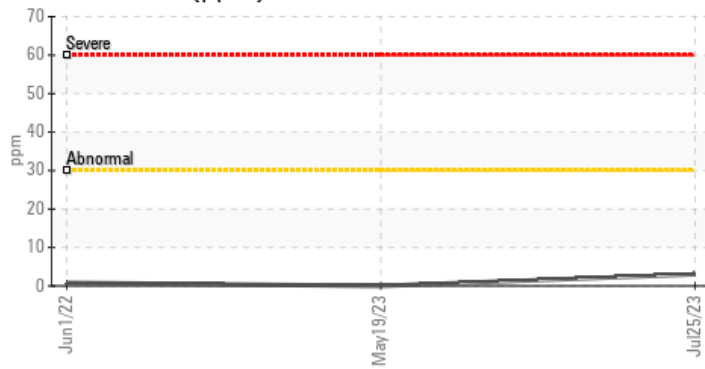
### Iron (ppm)



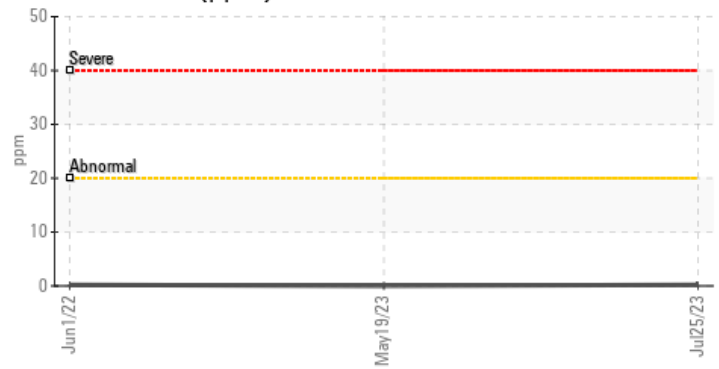
### Lead (ppm)



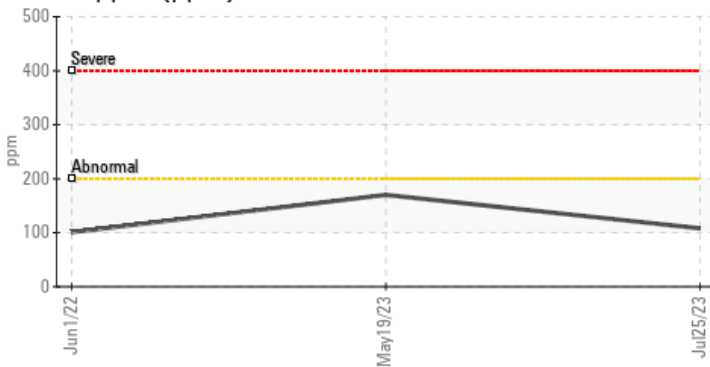
### Aluminum (ppm)



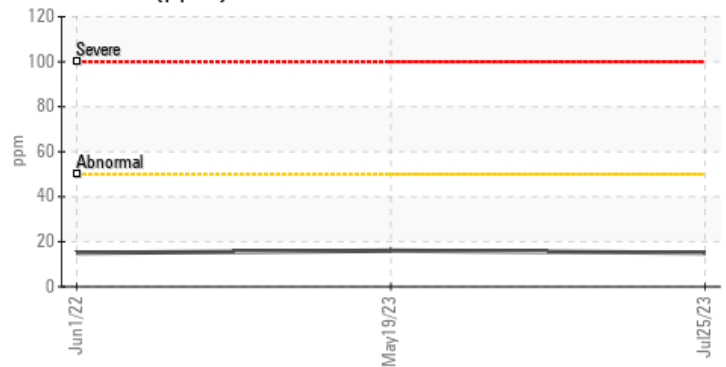
### Chromium (ppm)



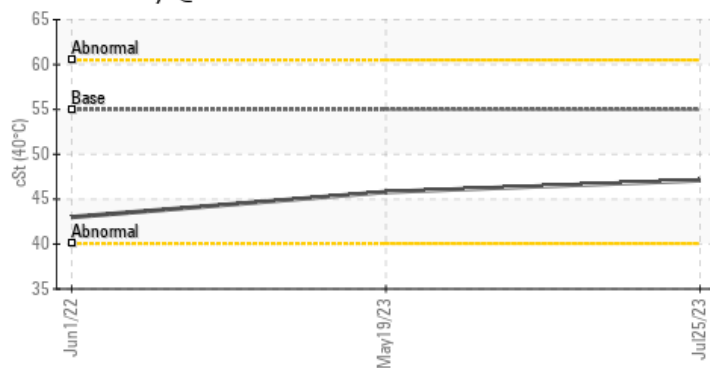
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Water

