



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352916 - BRAKE



**Sample No:** VCP450928  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP450928</b>   | VCP435632   | VCP432956   | VCP419133   |
| Sample Date   | <b>08 May 2024</b> | 26 Jan 2024 | 11 Oct 2023 | 25 Jul 2023 |
| Machine Hours | <b>4510</b>        | 4034        | 3517        | 3005        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Changd</b>  | Changed     | Not Changd  | Not Changd  |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    | ABNORMAL    |

**SAIIA CONSTRUCTION LLC**  
 4400 LEWISBURG RD  
 BIRMINGHAM, AL  
 US 35207  
 Contact: STEPHANI BRITTON  
 sbritton@saiia.com;doug.bogart@wearcheck.com  
 T: (205)943-2268  
 F: (205)943-2269



### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>43.9</b> | 41.1 | 41.5 | 41.1 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

| Water     | %   | NEG       | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon   | ppm | <b>17</b> | 19  | 18  | 20  |
| Sodium    | ppm | <b>8</b>  | 5   | 11  | 10  |
| Potassium | ppm | <b>2</b>  | 2   | 0   | 0   |

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. 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>32</b>    | 56  | 24  | 34  |
| Copper     | ppm | <b>208</b>   | 285 | 275 | 247 |
| Lead       | ppm | <b>2</b>     | 0   | 0   | 0   |
| Tin        | ppm | <b>0</b>     | 0   | <1  | 0   |
| Aluminum   | ppm | <b>&lt;1</b> | 2   | <1  | 1   |
| Chromium   | ppm | <b>&lt;1</b> | 1   | <1  | <1  |
| Molybdenum | ppm | <b>2</b>     | <1  | 0   | <1  |
| Nickel     | ppm | <b>5</b>     | 6   | 5   | 5   |
| Titanium   | ppm | <b>0</b>     | 0   | 0   | 0   |
| Silver     | ppm | <b>&lt;1</b> | 0   | 0   | 0   |
| Manganese  | ppm | <b>1</b>     | 2   | 2   | 2   |
| Vanadium   | ppm | <b>&lt;1</b> | 0   | 0   | 0   |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3350</b> | 3165 | 2816 | 3374 |
| Magnesium  | ppm | <b>18</b>   | 9    | 21   | 10   |
| Zinc       | ppm | <b>1423</b> | 1428 | 1228 | 1511 |
| Phosphorus | ppm | <b>1281</b> | 1255 | 1119 | 1276 |
| Barium     | ppm | <b>0</b>    | <1   | 0    | 0    |
| Boron      | ppm | <b>122</b>  | 107  | 95   | 112  |

**Depot:** SAIBIR  
**Unique No:** 11035996  
**Signed:** Sean Felton  
**Report Date:** 22 May 2024

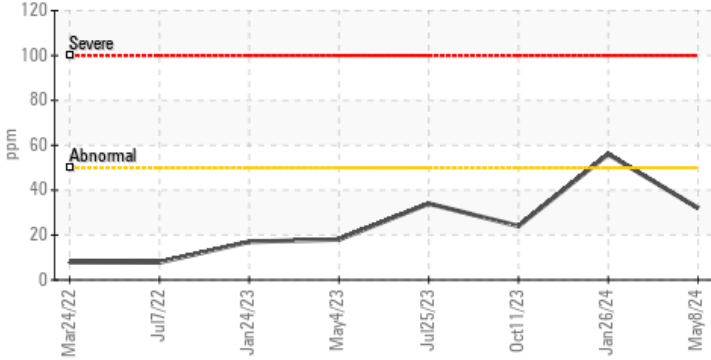


# CONSTRUCTION EQUIPMENT

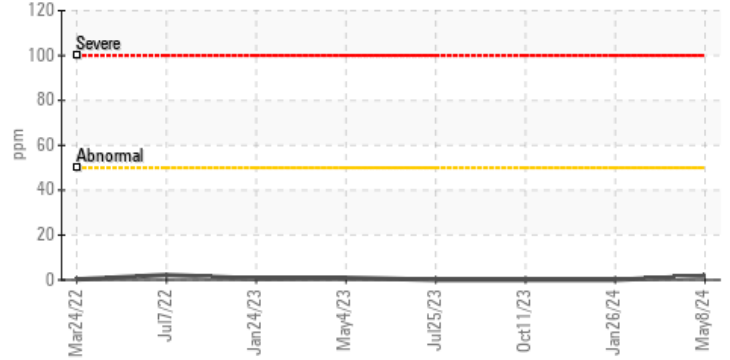


## GRAPHS

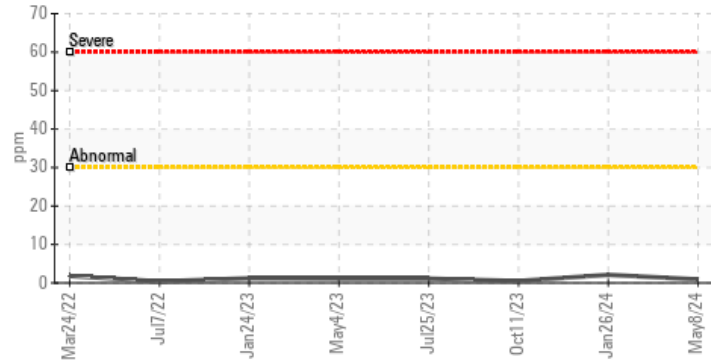
### Iron (ppm)



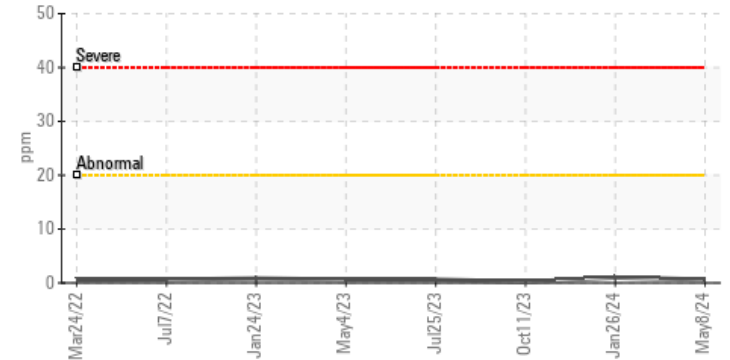
### Lead (ppm)



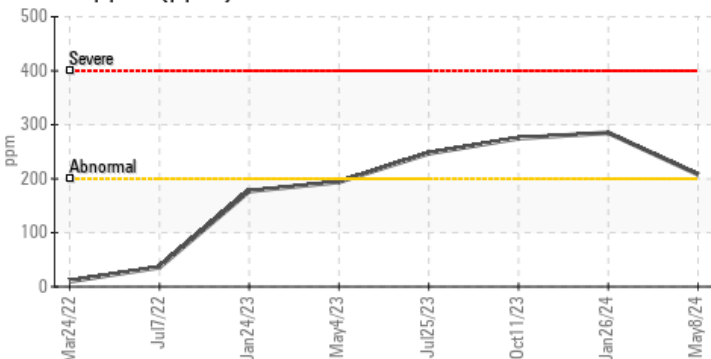
### Aluminum (ppm)



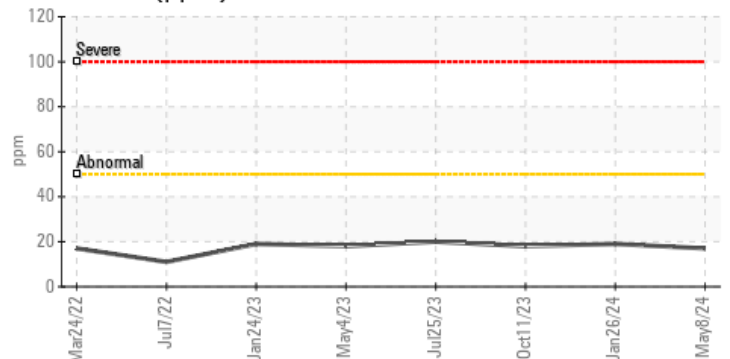
### Chromium (ppm)



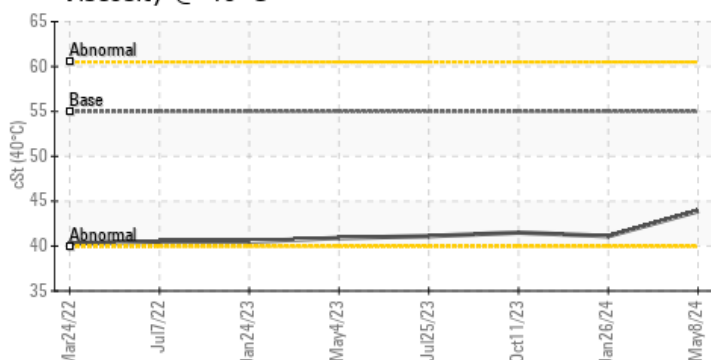
### ▲ Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

