



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352808 - WET DISC BRAKE



**Sample No:** VCP439018  
**Oil Type:** VOLVO WET BRAKE TRANSAXLE OIL  
**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP439018   | --- | --- | --- |
| Sample Date   | 17 Feb 2024 | --- | --- | --- |
| Machine Hours | 4096        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

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### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 41.9 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



### CONTAMINATION

|           |     |      |     |     |     |
|-----------|-----|------|-----|-----|-----|
| Water     | %   | NEG  | --- | --- | --- |
| Silicon   | ppm | ▲ 21 | --- | --- | --- |
| Sodium    | ppm | █ 8  | --- | --- | --- |
| Potassium | ppm | █ 0  | --- | --- | --- |

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. The copper level is abnormal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.



### WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | ▲ 46  | --- | --- | --- |
| Copper     | ppm | ▲ 164 | --- | --- | --- |
| Lead       | ppm | █ 1   | --- | --- | --- |
| Tin        | ppm | █ <1  | --- | --- | --- |
| Aluminum   | ppm | █ 1   | --- | --- | --- |
| Chromium   | ppm | █ 2   | --- | --- | --- |
| Molybdenum | ppm | █ <1  | --- | --- | --- |
| Nickel     | ppm | █ 5   | --- | --- | --- |
| Titanium   | ppm | 0     | --- | --- | --- |
| Silver     | ppm | 0     | --- | --- | --- |
| Manganese  | ppm | █ 2   | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |



### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 3412 | --- | --- | --- |
| Magnesium  | ppm | █ 0    | --- | --- | --- |
| Zinc       | ppm | █ 1421 | --- | --- | --- |
| Phosphorus | ppm | █ 1219 | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 113  | --- | --- | --- |

**Depot:** VOLVO0090  
**Unique No:** 10888021  
**Signed:** Jonathan Hester  
**Report Date:** 23 Feb 2024

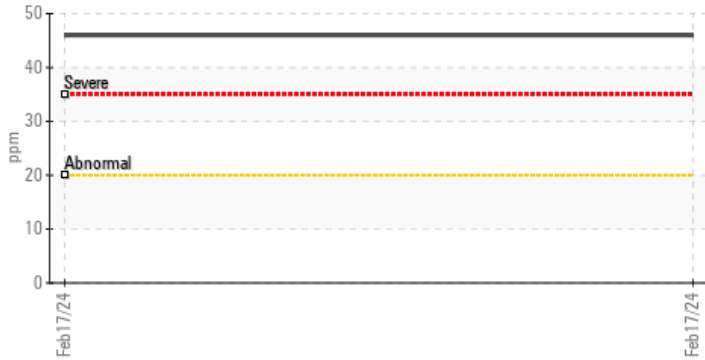


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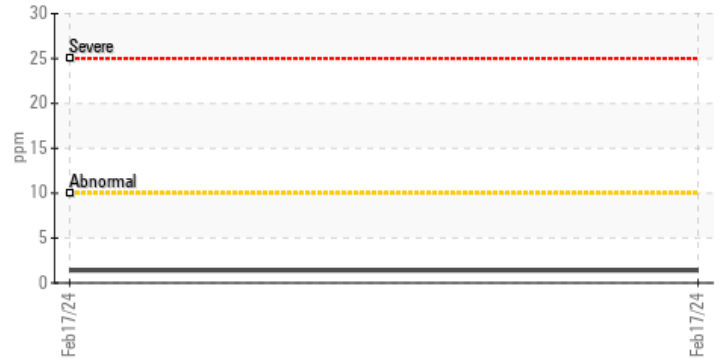


## GRAPHS

### ▲ Iron (ppm)



### Lead (ppm)



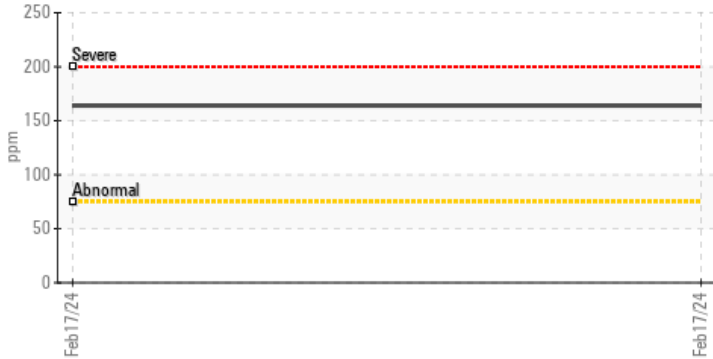
### Aluminum (ppm)



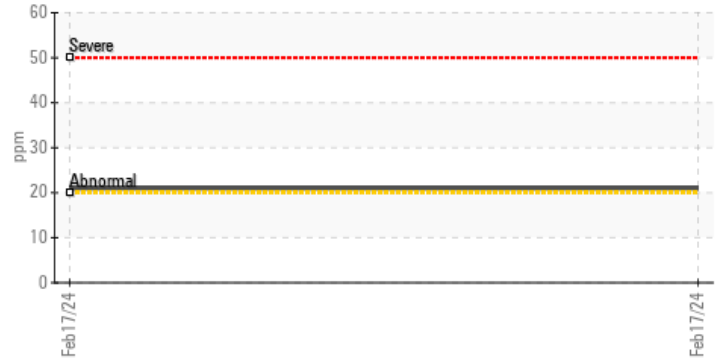
### Chromium (ppm)



### ▲ Copper (ppm)



### ▲ Silicon (ppm)



### Viscosity @ 40°C



### Additives

