



# CONSTRUCTION EQUIPMENT

SWO-071569 VOLVO A45G 353092 - DROP BOX



**Sample No:** VCP453710  
**Oil Type:** {unknown}  
**Job No:** SWO-071569



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP453710</b>   | VCP443366   | VCP431089   | VCP407514   |
| Sample Date   | <b>02 May 2024</b> | 03 Jan 2024 | 19 Sep 2023 | 09 Jun 2023 |
| Machine Hours | <b>3022</b>        | 2545        | 2012        | 1497        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Not Changd  | Not Changd  | Not Changd  |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    | ABNORMAL    |

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## OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>45.5</b> | 46.4 | 45.5 | 46.2 |
|-------------|-----|-------------|------|------|------|



## CONTAMINATION

| Water     | %   | NEG       | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon   | ppm | <b>75</b> | 55  | 60  | 51  |
| Sodium    | ppm | <b>7</b>  | <1  | 8   | 9   |
| Potassium | ppm | <b>4</b>  | 4   | 3   | 1   |

**Diagnosis**  
 No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. 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 | <b>632</b>   | 381 | 340 | 189 |
| Copper     | ppm | <b>19</b>    | 21  | 20  | 11  |
| Lead       | ppm | <b>&lt;1</b> | <1  | 0   | 0   |
| Tin        | ppm | <b>0</b>     | 0   | 0   | 0   |
| Aluminum   | ppm | <b>5</b>     | 2   | 1   | 0   |
| Chromium   | ppm | <b>5</b>     | 2   | 2   | 2   |
| Molybdenum | ppm | <b>11</b>    | 8   | 7   | 7   |
| Nickel     | ppm | <b>4</b>     | 2   | 2   | <1  |
| Titanium   | ppm | <b>&lt;1</b> | <1  | 0   | 0   |
| Silver     | ppm | <b>0</b>     | 0   | 0   | 0   |
| Manganese  | ppm | <b>9</b>     | 8   | 8   | 4   |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | 0   |



## ADDITIVES

|            |     |              |      |      |      |
|------------|-----|--------------|------|------|------|
| Calcium    | ppm | <b>34</b>    | 26   | 30   | 48   |
| Magnesium  | ppm | <b>4</b>     | 3    | 3    | 2    |
| Zinc       | ppm | <b>129</b>   | 108  | 138  | 102  |
| Phosphorus | ppm | <b>2244</b>  | 1997 | 2511 | 2374 |
| Barium     | ppm | <b>&lt;1</b> | 8    | 0    | 0    |
| Boron      | ppm | <b>116</b>   | 130  | 150  | 127  |

**Depot:** SAIBIR  
**Unique No:** 11020300  
**Signed:** Angela Borella  
**Report Date:** 13 May 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

