



# CONSTRUCTION EQUIPMENT

## VOLVO L180H 5290 - FRONT AXLE



**Sample No:** VCP444788  
**Oil Type:** MOBIL MOBILFLUID 424  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP444788</b>   | VCP433657   | VCP331585   | VCP312684   |
| Sample Date   | <b>04 Jun 2024</b> | 06 Mar 2024 | 13 Nov 2023 | 07 Sep 2023 |
| Machine Hours | <b>7436</b>        | 6999        | 6425        | 5994        |
| Oil Hours     | <b>1011</b>        | 574         | 961         | 530         |
| Oil Changed   | <b>Changed</b>     | Not Changd  | Changed     | Not Changd  |
| Sample Status | <b>ABNORMAL</b>    | NORMAL      | ABNORMAL    | NORMAL      |

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### OIL CONDITION

|             |     |             |      |      |      |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | <b>52.1</b> | 50.9 | 50.6 | 51.5 |
|-------------|-----|-------------|------|------|------|



### CONTAMINATION

|           |     |              |     |         |     |
|-----------|-----|--------------|-----|---------|-----|
| Water     | %   | <b>NEG</b>   | NEG | ▲ 0.226 | NEG |
| Silicon   | ppm | <b>▲ 53</b>  | 16  | 19      | 18  |
| Sodium    | ppm | <b>&lt;1</b> | 1   | 5       | 2   |
| Potassium | ppm | <b>4</b>     | 0   | 0       | 1   |

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.



### WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>37</b>    | 11 | 27 | 21 |
| Copper     | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Lead       | ppm | <b>0</b>     | 0  | 0  | 0  |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0  |
| Aluminum   | ppm | <b>6</b>     | <1 | <1 | 3  |
| Chromium   | ppm | <b>1</b>     | 0  | <1 | <1 |
| Molybdenum | ppm | <b>1</b>     | 0  | <1 | 1  |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Titanium   | ppm | <b>1</b>     | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>&lt;1</b> | <1 | 1  | <1 |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |



### ADDITIVES

|            |     |              |      |      |      |
|------------|-----|--------------|------|------|------|
| Calcium    | ppm | <b>3486</b>  | 3960 | 3414 | 3474 |
| Magnesium  | ppm | <b>19</b>    | 2    | 21   | 20   |
| Zinc       | ppm | <b>1407</b>  | 1571 | 1435 | 1465 |
| Phosphorus | ppm | <b>1193</b>  | 1254 | 1136 | 1150 |
| Barium     | ppm | <b>&lt;1</b> | 0    | 0    | 0    |
| Boron      | ppm | <b>119</b>   | 130  | 117  | 136  |

**Depot:** SCHGRE  
**Unique No:** 11085026  
**Signed:** Don Baldridge  
**Report Date:** 19 Jun 2024



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## VOLVO GRAPHS

