



# CONSTRUCTION EQUIPMENT

GDS GRANDE VALLE 404277 VOLVO L90H 625902 - DIESEL ENGINE



**Sample No:** VCP449449  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 404277



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP449449</b>   | VCP429854   | VCP429849   | VCP393170   |
| Sample Date   | <b>23 May 2024</b> | 15 Apr 2024 | 07 Mar 2024 | 19 Jan 2024 |
| Machine Hours | <b>11166</b>       | 10581       | 10136       | 9572        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |



### STRONGCO EQUIPMENT INC (STE- FOY)

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## OIL CONDITION

|                |     |             |      |      |      |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C   | cSt | <b>14.6</b> | 14.4 | 15.2 | 14.1 |
| Oxidation (PA) | %   | <b>100</b>  | 95   | 111  | 99   |



## CONTAMINATION

|                |     |                |      |      |      |
|----------------|-----|----------------|------|------|------|
| Water          | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Soot %         | %   | <b>0.1</b>     | 0.1  | 0.2  | 0.1  |
| Nitration (PA) | %   | <b>94</b>      | 86   | 97   | 85   |
| Sulfation (PA) | %   | <b>69</b>      | 65   | 73   | 67   |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | <1.0 |
| Silicon        | ppm | <b>5</b>       | 4    | 3    | 7    |
| Sodium         | ppm | <b>2</b>       | 2    | 2    | 2    |
| Potassium      | ppm | <b>&lt;1</b>   | <1   | <1   | <1   |

### Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>12</b>    | 9  | 14 | 10 |
| Copper     | ppm | <b>&lt;1</b> | <1 | 1  | <1 |
| Lead       | ppm | <b>0</b>     | 0  | 3  | <1 |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0  |
| Aluminum   | ppm | <b>3</b>     | 2  | 4  | 5  |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>59</b>    | 52 | 62 | 55 |
| Nickel     | ppm | <b>0</b>     | 0  | <1 | <1 |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1979</b> | 1916 | 1873 | 1762 |
| Magnesium  | ppm | <b>509</b>  | 485  | 558  | 524  |
| Zinc       | ppm | <b>1286</b> | 1217 | 1330 | 1188 |
| Phosphorus | ppm | <b>1075</b> | 1017 | 1069 | 1021 |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>104</b>  | 92   | 124  | 90   |

**Depot:** VOLVO0228  
**Unique No:** 5787993  
**Signed:** Wes Davis  
**Report Date:** 30 May 2024

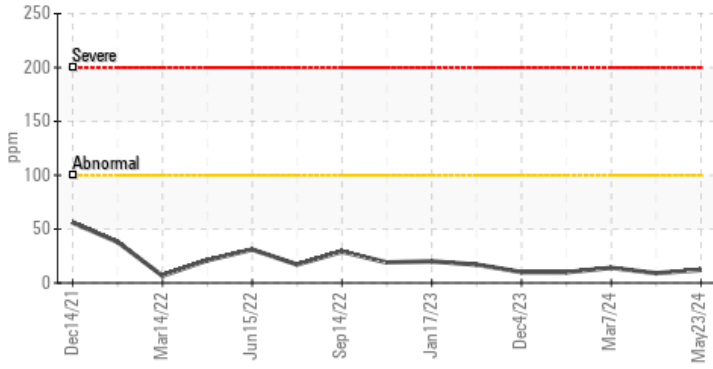


# CONSTRUCTION EQUIPMENT

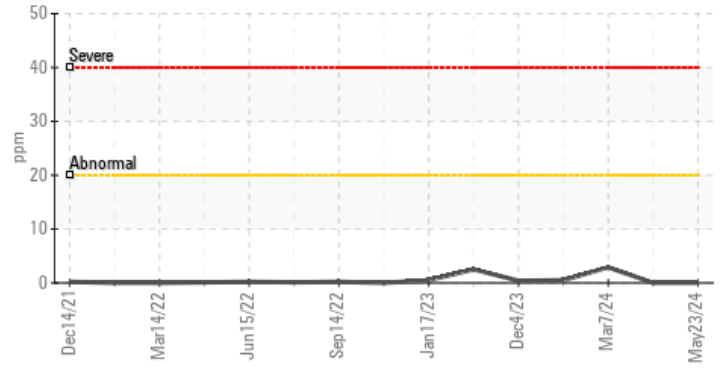


## GRAPHS

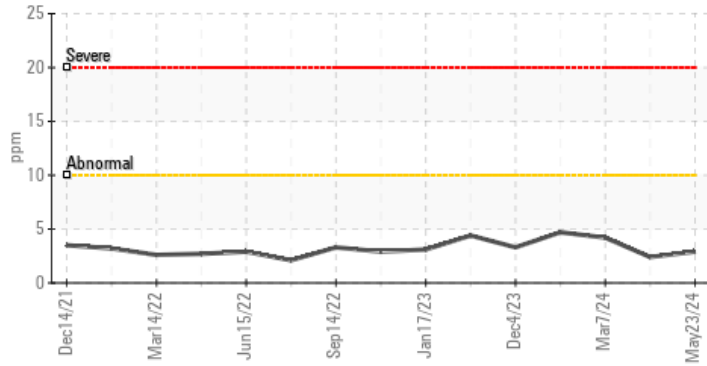
### Iron (ppm)



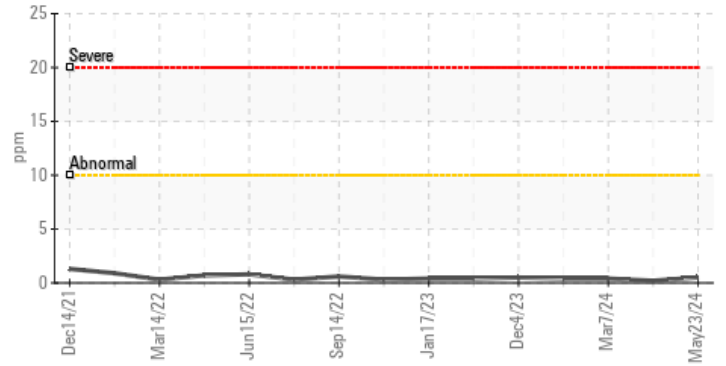
### Lead (ppm)



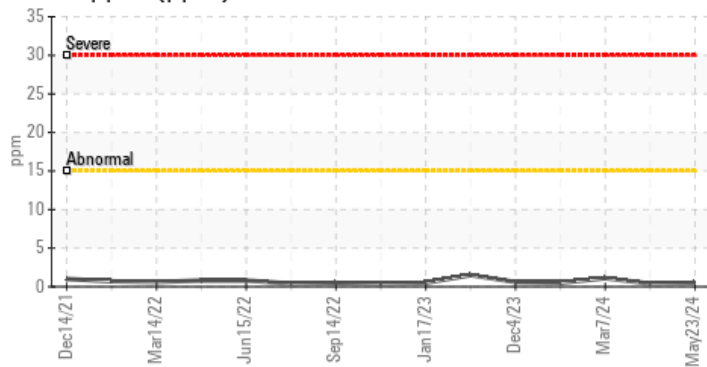
### Aluminum (ppm)



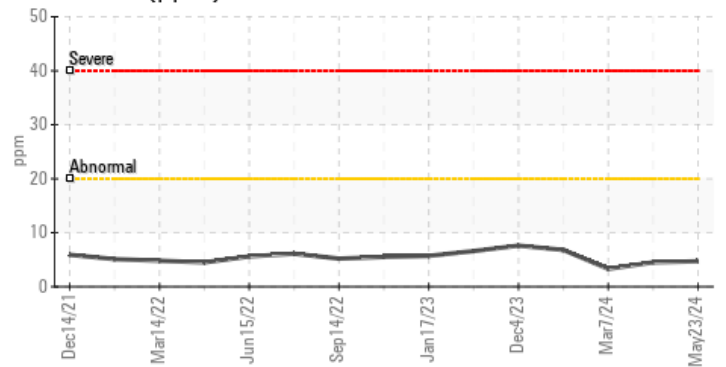
### Chromium (ppm)



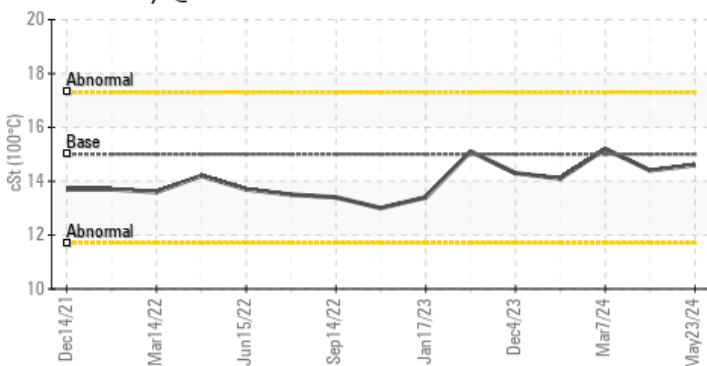
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Soot %

