



# CONSTRUCTION EQUIPMENT

## 2825-1 VOLVO L90F 3199 - REAR AXLE



**Sample No:** VCP445921  
**Oil Type:** VOLVO WB 102  
**Job No:** 2825-1



### SAMPLE INFORMATION

| Sample Number | VCP445921   | VCP412756   | VCP390157   | VCP390156   |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date   | 20 Feb 2024 | 26 Sep 2023 | 28 Jun 2023 | 28 Mar 2023 |
| Machine Hours | 18494       | 17537       | 16948       | 16484       |
| Oil Hours     | 0           | 0           | 0           | 0           |
| Oil Changed   | Not Chngd   | Not Chngd   | Not Chngd   | Not Chngd   |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

| Visc @ 40°C | cSt | 41.3 | 44.6 | 43.0 | 42.6 |
|-------------|-----|------|------|------|------|
|-------------|-----|------|------|------|------|



### CONTAMINATION

| Water     | %   | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon   | ppm | 15  | 17  | 19  | 18  |
| Sodium    | ppm | <1  | <1  | 2   | 2   |
| Potassium | ppm | 0   | 2   | 0   | 0   |

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



### WEAR METALS

|            |     |    |    |    |    |
|------------|-----|----|----|----|----|
| Iron       | ppm | 15 | 40 | 22 | 14 |
| Copper     | ppm | <1 | <1 | <1 | 0  |
| Lead       | ppm | 0  | 0  | 0  | 0  |
| Tin        | ppm | <1 | 0  | 0  | 0  |
| Aluminum   | ppm | 1  | 3  | 1  | 1  |
| Chromium   | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 0  | <1 | <1 | <1 |
| Nickel     | ppm | 0  | <1 | 0  | 0  |
| Titanium   | ppm | 0  | <1 | <1 | 0  |
| Silver     | ppm | 0  | 0  | 0  | 0  |
| Manganese  | ppm | <1 | <1 | <1 | <1 |
| Vanadium   | ppm | 0  | 0  | 0  | 0  |



### ADDITIVES

|            |     |      |      |      |      |
|------------|-----|------|------|------|------|
| Calcium    | ppm | 3151 | 3943 | 3811 | 3981 |
| Magnesium  | ppm | 14   | 15   | 20   | 18   |
| Zinc       | ppm | 1504 | 1665 | 1479 | 1537 |
| Phosphorus | ppm | 1152 | 1286 | 1204 | 1222 |
| Barium     | ppm | 0    | 0    | 0    | 0    |
| Boron      | ppm | 24   | 158  | 170  | 142  |

**Depot:** VOLVO1023  
**Unique No:** 10903724  
**Signed:** Wes Davis  
**Report Date:** 01 Mar 2024

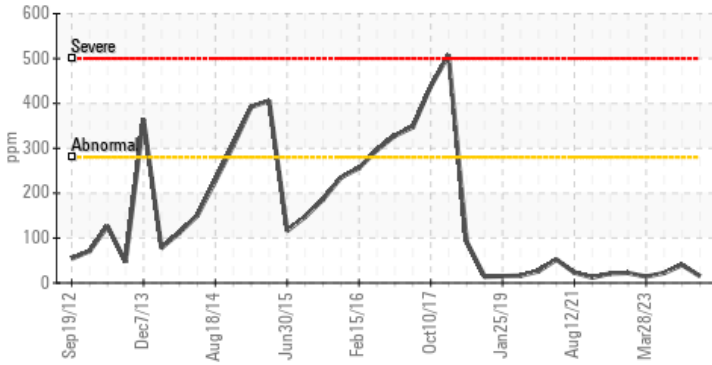


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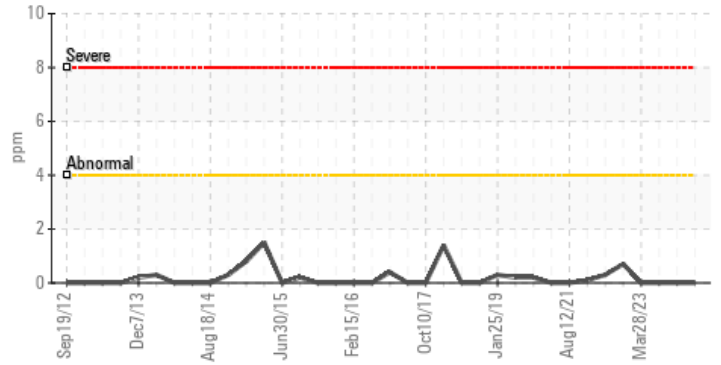


## GRAPHS

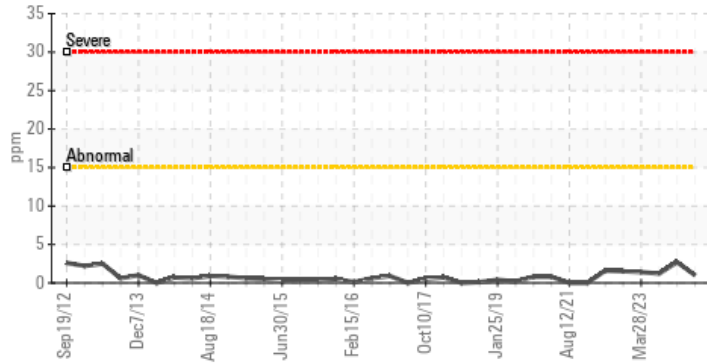
### Iron (ppm)



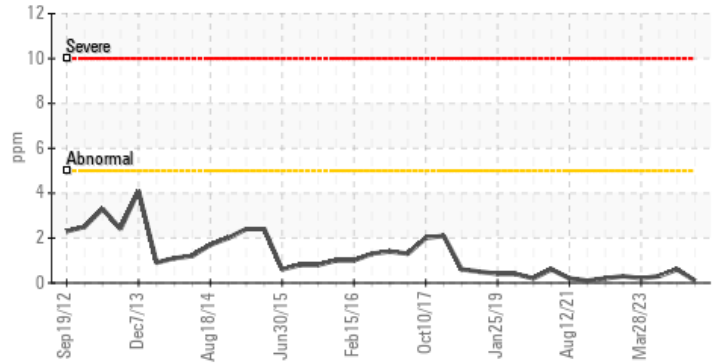
### Lead (ppm)



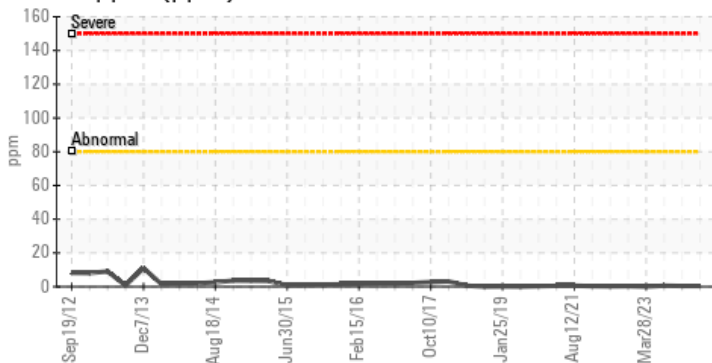
### Aluminum (ppm)



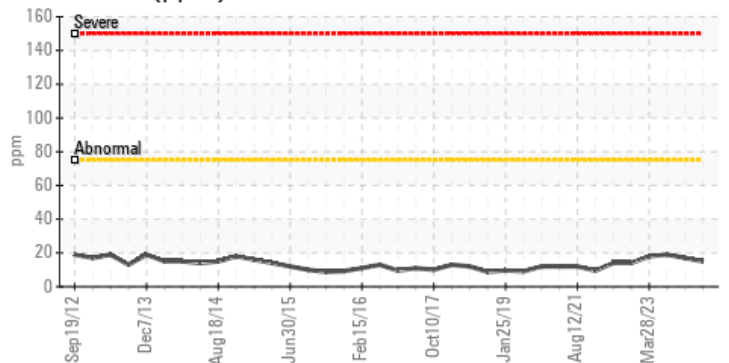
### Chromium (ppm)



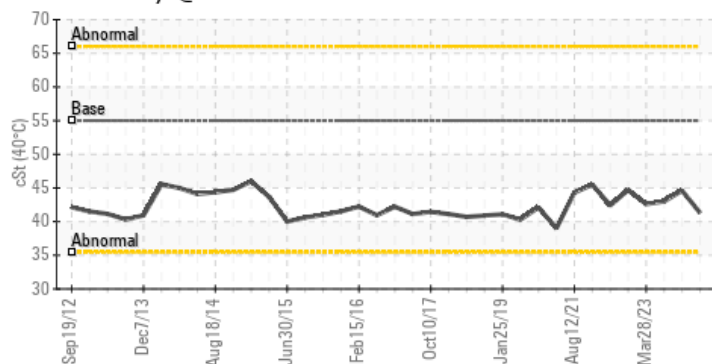
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

