



# CONSTRUCTION EQUIPMENT

9152 LKQ CURTIS BAY VOLVO L90H 625992 - DIESEL ENGINE



**Sample No:** VCP408909  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9152 LKQ CURTIS BAY



## SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP408909</b>   | VCP393418   | VCP390005   | --- |
| Sample Date   | <b>27 Jun 2023</b> | 12 Jan 2023 | 13 Oct 2022 | --- |
| Machine Hours | <b>2281</b>        | 1805        | 1256        | --- |
| Oil Hours     | <b>0</b>           | 0           | 0           | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | --- |



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## OIL CONDITION

|                  |          |             |      |      |     |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C     | cSt      | <b>13.4</b> | 13.4 | 13.3 | --- |
| Base Number (BN) | mg KOH/g | <b>8.3</b>  | 8.4  | 10.0 | --- |
| Oxidation (PA)   | %        | <b>63</b>   | 64   | 80   | --- |



## CONTAMINATION

|                |     |                |      |      |     |
|----------------|-----|----------------|------|------|-----|
| Soot %         | %   | <b>0.3</b>     | 0.3  | 0.4  | --- |
| Nitration (PA) | %   | <b>61</b>      | 58   | 78   | --- |
| Sulfation (PA) | %   | <b>61</b>      | 61   | 63   | --- |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG  | --- |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | --- |
| Silicon        | ppm | <b>6</b>       | 6    | 14   | --- |
| Sodium         | ppm | <b>0</b>       | <1   | 2    | --- |
| Potassium      | ppm | <b>2</b>       | 1    | 3    | --- |



## WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>19</b>    | 29 | 83 | --- |
| Copper     | ppm | <b>1</b>     | 2  | 10 | --- |
| Lead       | ppm | <b>0</b>     | 1  | 1  | --- |
| Tin        | ppm | <b>&lt;1</b> | <1 | 3  | --- |
| Aluminum   | ppm | <b>5</b>     | 5  | 27 | --- |
| Chromium   | ppm | <b>&lt;1</b> | 1  | 7  | --- |
| Molybdenum | ppm | <b>98</b>    | 94 | 52 | --- |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Titanium   | ppm | <b>1</b>     | 0  | <1 | --- |
| Silver     | ppm | <b>0</b>     | 0  | <1 | --- |
| Manganese  | ppm | <b>&lt;1</b> | <1 | 4  | --- |
| Vanadium   | ppm | <b>0</b>     | 0  | <1 | --- |



## ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>1451</b> | 1552 | 1449 | --- |
| Magnesium  | ppm | <b>459</b>  | 541  | 713  | --- |
| Zinc       | ppm | <b>1123</b> | 1122 | 1208 | --- |
| Phosphorus | ppm | <b>952</b>  | 914  | 1010 | --- |
| Barium     | ppm | <b>0</b>    | 0    | 0    | --- |
| Boron      | ppm | <b>396</b>  | 321  | 25   | --- |

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** VOLV00150  
**Unique No:** 10552473  
**Signed:** Wes Davis  
**Report Date:** 13 Jul 2023

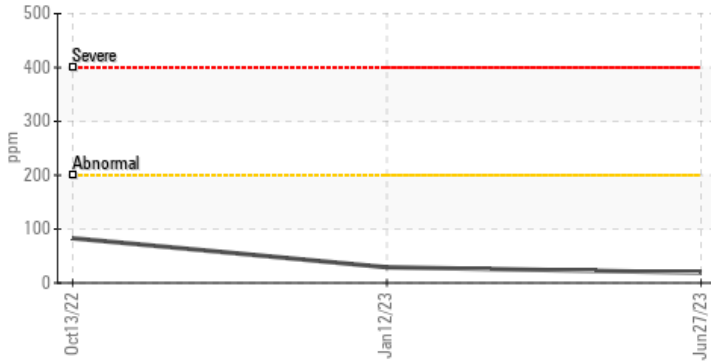


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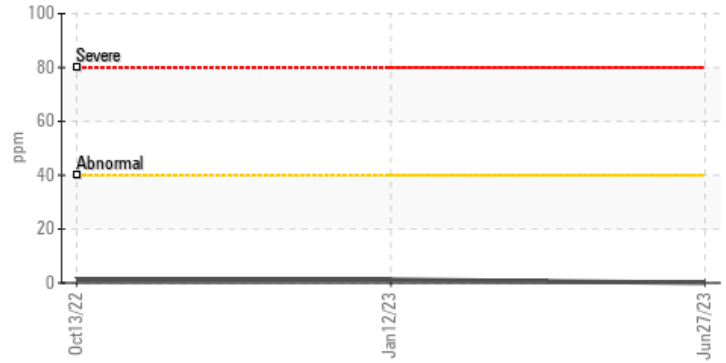


## GRAPHS

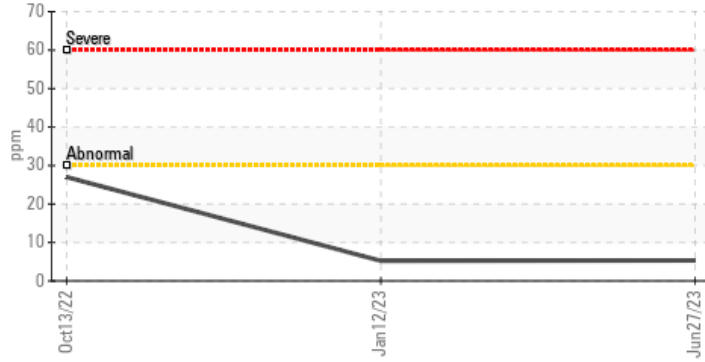
### Iron (ppm)



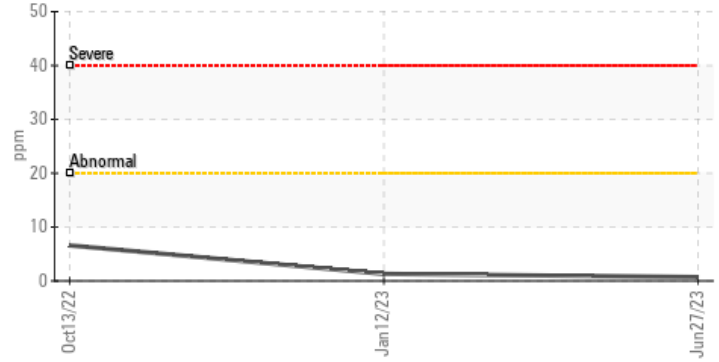
### Lead (ppm)



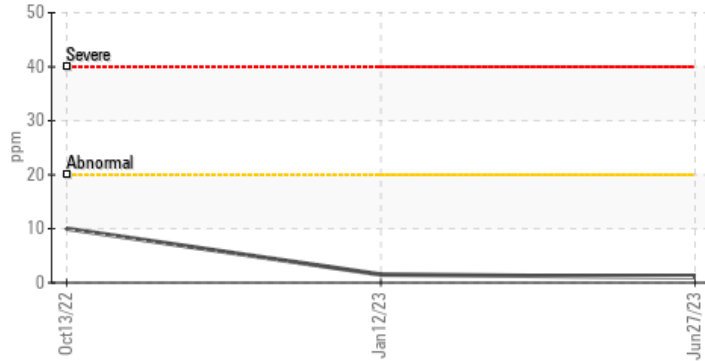
### Aluminum (ppm)



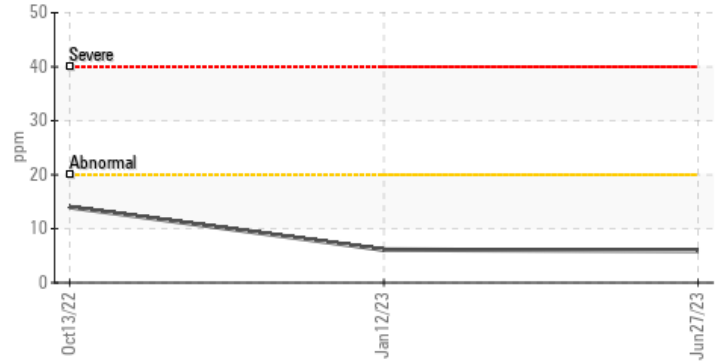
### Chromium (ppm)



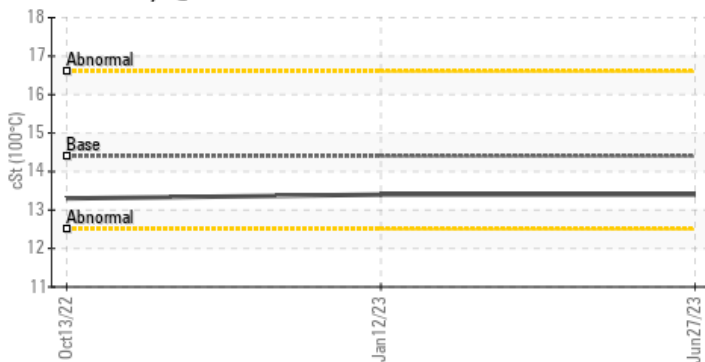
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

