



# CONSTRUCTION EQUIPMENT

## TRIPLE M METAL 379610 VOLVO L260 1233 - DIESEL ENGINE



**Sample No:** VCP430007  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 379610



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP430007</b>   | VCP380130   | VCP394777   | VCP353444   |
| Sample Date   | <b>12 Oct 2023</b> | 28 Aug 2023 | 12 Jul 2023 | 10 Mar 2023 |
| Machine Hours | <b>0</b>           | 921         | 4516        | 2344        |
| Oil Hours     | <b>2000</b>        | 0           | 0           | 500         |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>SEVERE</b>      | NORMAL      | NORMAL      | NORMAL      |

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### OIL CONDITION

|                |     |             |      |      |      |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C   | cSt | <b>12.5</b> | 12.7 | 12.9 | 13.0 |
| Oxidation (PA) | %   | <b>84</b>   | 76   | 92   | 91   |



### CONTAMINATION

|                |     |                |      |      |      |
|----------------|-----|----------------|------|------|------|
| Soot %         | %   | <b>0.2</b>     | 0.2  | 0.2  | 0.1  |
| Nitration (PA) | %   | <b>61</b>      | 59   | 71   | 71   |
| Sulfation (PA) | %   | <b>63</b>      | 63   | 66   | 71   |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | <1.0 |
| Silicon        | ppm | <b>7</b>       | 6    | 5    | 4    |
| Sodium         | ppm | <b>3</b>       | 3    | 3    | 5    |
| Potassium      | ppm | <b>&lt;1</b>   | 1    | <1   | 0    |

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Nickel ppm levels are severe. Exhaust valve wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



### WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>20</b>    | 18 | 15 | 10  |
| Copper     | ppm | <b>2</b>     | 4  | 10 | 173 |
| Lead       | ppm | <b>&lt;1</b> | <1 | 1  | 5   |
| Tin        | ppm | <b>&lt;1</b> | <1 | 1  | 2   |
| Aluminum   | ppm | <b>3</b>     | 2  | 2  | 2   |
| Chromium   | ppm | <b>3</b>     | 3  | <1 | <1  |
| Molybdenum | ppm | <b>40</b>    | 38 | 40 | 43  |
| Nickel     | ppm | <b>9</b>     | 6  | 2  | <1  |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | <1  |
| Silver     | ppm | <b>&lt;1</b> | 0  | 0  | 0   |
| Manganese  | ppm | <b>0</b>     | <1 | <1 | <1  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0   |



### ADDITIVES

|            |     |              |      |      |      |
|------------|-----|--------------|------|------|------|
| Calcium    | ppm | <b>1710</b>  | 1652 | 1682 | 1787 |
| Magnesium  | ppm | <b>501</b>   | 493  | 511  | 520  |
| Zinc       | ppm | <b>1072</b>  | 1063 | 1095 | 1099 |
| Phosphorus | ppm | <b>910</b>   | 935  | 959  | 971  |
| Barium     | ppm | <b>&lt;1</b> | 0    | 0    | 0    |
| Boron      | ppm | <b>22</b>    | 19   | 17   | 26   |

**Depot:** VOLVO0252  
**Unique No:** 5658930  
**Signed:** Kevin Marson  
**Report Date:** 18 Oct 2023



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## GRAPHS

