



# CONSTRUCTION EQUIPMENT

## SPM568443 CROSSTOWN CATERPILLAR 305.5 H5M04559 - DIESEL ENGINE



**Sample No:** VCP422848  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM568443 CROSSTOWN



### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP422848   | VCP310417   | --- | --- |
| Sample Date   | 06 Jul 2023 | 26 May 2021 | --- | --- |
| Machine Hours | 2444        | 1530        | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Changed     | Changed     | --- | --- |
| Sample Status | NORMAL      | NORMAL      | --- | --- |

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### OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.1 | █ 12.9 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.4  | ---    | --- | --- |
| Oxidation (PA)   | %        | 87     | 109    | --- | --- |

### 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.



### CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Soot %         | %   | █ 0.3 | █ 0.3 | --- | --- |
| Nitration (PA) | %   | 91    | 101   | --- | --- |
| Sulfation (PA) | %   | 60    | 70    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | <1.0  | <1.0  | --- | --- |
| Silicon        | ppm | █ 4   | █ 5   | --- | --- |
| Sodium         | ppm | █ 2   | █ 2   | --- | --- |
| Potassium      | ppm | █ 1   | █ <1  | --- | --- |



### WEAR METALS

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Iron       | ppm | █ 19 | █ 22 | --- | --- |
| Copper     | ppm | █ 3  | █ 2  | --- | --- |
| Lead       | ppm | █ <1 | █ <1 | --- | --- |
| Tin        | ppm | █ <1 | █ <1 | --- | --- |
| Aluminum   | ppm | █ 3  | █ 2  | --- | --- |
| Chromium   | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 63 | █ 42 | --- | --- |
| Nickel     | ppm | █ 0  | █ <1 | --- | --- |
| Titanium   | ppm | █ 0  | █ <1 | --- | --- |
| Silver     | ppm | █ 0  | █ 0  | --- | --- |
| Manganese  | ppm | █ <1 | █ <1 | --- | --- |
| Vanadium   | ppm | 0    | 0    | --- | --- |



### ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | █ 1245 | █ 1717 | --- | --- |
| Magnesium  | ppm | █ 1058 | █ 526  | --- | --- |
| Zinc       | ppm | █ 1441 | █ 1133 | --- | --- |
| Phosphorus | ppm | █ 1133 | █ 931  | --- | --- |
| Barium     | ppm | █ 0    | █ 0    | --- | --- |
| Boron      | ppm | █ 6    | █ 103  | --- | --- |

**Depot:** VOLVO8885  
**Unique No:** 10560512  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2023



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## GRAPHS

