



# CONSTRUCTION EQUIPMENT

## 9385 VOLVO L70H 624024 - DIESEL ENGINE



**Sample No:** VCP423113  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9385



### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP423113   | VCP361165   | --- | --- |
| Sample Date   | 27 Jul 2023 | 01 Jun 2022 | --- | --- |
| Machine Hours | 1048        | 517         | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Changed     | Changed     | --- | --- |
| Sample Status | NORMAL      | ATTENTION   | --- | --- |



**RELIABLE CONTRACTING**  
 2410 EVERGREEN RD SUITE 200  
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### OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | █ 12.6 | ▲ 12.3 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.5  | █ 10.0 | --- | --- |
| Oxidation (PA)   | %        | 65     | 69     | --- | --- |



### CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Soot %         | %   | █ 0.3 | █ 0.2 | --- | --- |
| Nitration (PA) | %   | 62    | 63    | --- | --- |
| Sulfation (PA) | %   | 61    | 57    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | <1.0  | █ 0.6 | --- | --- |
| Silicon        | ppm | █ 10  | █ 18  | --- | --- |
| Sodium         | ppm | █ 2   | █ 4   | --- | --- |
| Potassium      | ppm | █ 6   | █ 2   | --- | --- |



### WEAR METALS

|            |     |       |      |     |     |
|------------|-----|-------|------|-----|-----|
| Iron       | ppm | █ 39  | █ 39 | --- | --- |
| Copper     | ppm | █ 2   | █ 9  | --- | --- |
| Lead       | ppm | █ 0   | █ 2  | --- | --- |
| Tin        | ppm | █ <1  | █ 3  | --- | --- |
| Aluminum   | ppm | █ 21  | █ 20 | --- | --- |
| Chromium   | ppm | █ 2   | █ 4  | --- | --- |
| Molybdenum | ppm | █ 109 | █ 28 | --- | --- |
| Nickel     | ppm | █ <1  | █ <1 | --- | --- |
| Titanium   | ppm | <1    | <1   | --- | --- |
| Silver     | ppm | █ <1  | 0    | --- | --- |
| Manganese  | ppm | █ 1   | █ 4  | --- | --- |
| Vanadium   | ppm | 0     | 0    | --- | --- |



### ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | █ 1364 | █ 1522 | --- | --- |
| Magnesium  | ppm | █ 474  | █ 554  | --- | --- |
| Zinc       | ppm | █ 994  | █ 1121 | --- | --- |
| Phosphorus | ppm | █ 819  | █ 899  | --- | --- |
| Barium     | ppm | █ 0    | █ 1    | --- | --- |
| Boron      | ppm | █ 336  | █ 64   | --- | --- |

### 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:** RELMIL  
**Unique No:** 10586157  
**Signed:** Wes Davis  
**Report Date:** 03 Aug 2023



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## GRAPHS

