



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352507 - DIESEL ENGINE



**Sample No:** VCP318563  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP318563</b>   | VCP408603   | --- | --- |
| Sample Date   | <b>20 Oct 2023</b> | 16 Jun 2023 | --- | --- |
| Machine Hours | <b>4221</b>        | 3596        | --- | --- |
| Oil Hours     | <b>0</b>           | 0           | --- | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | --- | --- |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | --- | --- |

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
 Contact: TODD LARK  
 tlark@altaequipfl.com  
 T:  
 F: (239)481-3302



### OIL CONDITION

|                  |          |               |        |     |     |
|------------------|----------|---------------|--------|-----|-----|
| Visc @ 100°C     | cSt      | <b>▲ 12.0</b> | ▲ 12.0 | --- | --- |
| Base Number (BN) | mg KOH/g | <b>■ 7.5</b>  | ■ 9.5  | --- | --- |
| Oxidation (PA)   | %        | <b>75</b>     | 69     | --- | --- |

### Diagnosis



### CONTAMINATION

|                |     |                |       |     |     |
|----------------|-----|----------------|-------|-----|-----|
| Soot %         | %   | <b>■ 0.3</b>   | ■ 0.2 | --- | --- |
| Nitration (PA) | %   | <b>77</b>      | 60    | --- | --- |
| Sulfation (PA) | %   | <b>60</b>      | 58    | --- | --- |
| Glycol         | %   | <b>NEG</b>     | NEG   | --- | --- |
| Fuel           | %   | <b>&lt;1.0</b> | ■ 0.3 | --- | --- |
| Silicon        | ppm | <b>■ 5</b>     | ■ 3   | --- | --- |
| Sodium         | ppm | <b>■ 3</b>     | ■ 2   | --- | --- |
| Potassium      | ppm | <b>■ &lt;1</b> | ■ 0   | --- | --- |



### WEAR METALS

|            |     |                |      |     |     |
|------------|-----|----------------|------|-----|-----|
| Iron       | ppm | <b>■ 8</b>     | ■ 5  | --- | --- |
| Copper     | ppm | <b>▲ 23</b>    | ▲ 20 | --- | --- |
| Lead       | ppm | <b>■ 2</b>     | ■ 0  | --- | --- |
| Tin        | ppm | <b>■ 1</b>     | ■ 0  | --- | --- |
| Aluminum   | ppm | <b>■ 5</b>     | ■ 7  | --- | --- |
| Chromium   | ppm | <b>■ &lt;1</b> | ■ 0  | --- | --- |
| Molybdenum | ppm | <b>■ 51</b>    | ■ 56 | --- | --- |
| Nickel     | ppm | <b>■ 2</b>     | ■ 0  | --- | --- |
| Titanium   | ppm | <b>0</b>       | 0    | --- | --- |
| Silver     | ppm | <b>■ 0</b>     | ■ 0  | --- | --- |
| Manganese  | ppm | <b>■ &lt;1</b> | ■ 0  | --- | --- |
| Vanadium   | ppm | <b>0</b>       | 0    | --- | --- |



### ADDITIVES

|            |     |               |        |     |     |
|------------|-----|---------------|--------|-----|-----|
| Calcium    | ppm | <b>■ 1630</b> | ■ 1799 | --- | --- |
| Magnesium  | ppm | <b>■ 635</b>  | ■ 690  | --- | --- |
| Zinc       | ppm | <b>■ 1199</b> | ■ 1325 | --- | --- |
| Phosphorus | ppm | <b>■ 958</b>  | ■ 1053 | --- | --- |
| Barium     | ppm | <b>■ 0</b>    | ■ 0    | --- | --- |
| Boron      | ppm | <b>■ 32</b>   | ■ 100  | --- | --- |

**Depot:** VOLVO0090  
**Unique No:** 10708808  
**Signed:** Don Baldrige  
**Report Date:** 25 Oct 2023



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## GRAPHS

