



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 752070 - DIESEL ENGINE



**Sample No:** VCP437920

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP437920</b>   | VCP429574   | --- | --- |
| Sample Date   | <b>06 Mar 2024</b> | 11 Dec 2023 | --- | --- |
| Machine Hours | <b>1016</b>        | 511         | --- | --- |
| Oil Hours     | <b>0</b>           | 0           | --- | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | --- | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | --- | --- |

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: PM Services  
PMServices@ripaconstruction.com  
T:  
F:



### OIL CONDITION

|                  |          |             |      |     |     |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 100°C     | cSt      | <b>12.4</b> | 10.9 | --- | --- |
| Base Number (BN) | mg KOH/g | <b>7.8</b>  | 5.5  | --- | --- |
| Oxidation (PA)   | %        | <b>78</b>   | 57   | --- | --- |

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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 acceptable for the time in service.



### CONTAMINATION

|                |     |                |     |     |     |
|----------------|-----|----------------|-----|-----|-----|
| Water          | %   | <b>NEG</b>     | NEG | --- | --- |
| Soot %         | %   | <b>0.2</b>     | 0.2 | --- | --- |
| Nitration (PA) | %   | <b>73</b>      | 85  | --- | --- |
| Sulfation (PA) | %   | <b>61</b>      | 53  | --- | --- |
| Glycol         | %   | <b>NEG</b>     | NEG | --- | --- |
| Fuel           | %   | <b>&lt;1.0</b> | 0.7 | --- | --- |
| Silicon        | ppm | <b>10</b>      | 29  | --- | --- |
| Sodium         | ppm | <b>&lt;1</b>   | 0   | --- | --- |
| Potassium      | ppm | <b>2</b>       | 7   | --- | --- |



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>10</b>    | 15  | --- | --- |
| Copper     | ppm | <b>75</b>    | 279 | --- | --- |
| Lead       | ppm | <b>&lt;1</b> | <1  | --- | --- |
| Tin        | ppm | <b>1</b>     | 3   | --- | --- |
| Aluminum   | ppm | <b>2</b>     | 2   | --- | --- |
| Chromium   | ppm | <b>&lt;1</b> | 0   | --- | --- |
| Molybdenum | ppm | <b>51</b>    | 84  | --- | --- |
| Nickel     | ppm | <b>1</b>     | 2   | --- | --- |
| Titanium   | ppm | <b>&lt;1</b> | <1  | --- | --- |
| Silver     | ppm | <b>0</b>     | 0   | --- | --- |
| Manganese  | ppm | <b>&lt;1</b> | 2   | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | --- | --- |



### ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>1699</b> | 2157 | --- | --- |
| Magnesium  | ppm | <b>479</b>  | 24   | --- | --- |
| Zinc       | ppm | <b>1161</b> | 1129 | --- | --- |
| Phosphorus | ppm | <b>984</b>  | 1011 | --- | --- |
| Barium     | ppm | <b>0</b>    | <1   | --- | --- |
| Boron      | ppm | <b>30</b>   | 29   | --- | --- |

**Depot:** RIPTAM  
**Unique No:** 10940253  
**Signed:** Don Baldrige  
**Report Date:** 26 Mar 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

