



# CONSTRUCTION EQUIPMENT

WO7013359-1 POLLARD TAKEUCHI TL8 200807823 - DIESEL ENGINE



**Sample No:** VCP409402  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** WO7013359-1 POLLARD



## SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP409402</b>   | VCP379103   | VCP294603   | --- |
| Sample Date   | <b>28 Aug 2023</b> | 21 Jun 2022 | 05 Apr 2021 | --- |
| Machine Hours | <b>1105</b>        | 841         | 500         | --- |
| Oil Hours     | <b>128</b>         | 500         | 0           | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | --- |
| Sample Status | <b>MARGINAL</b>    | ABNORMAL    | ATTENTION   | --- |

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## OIL CONDITION

|                  |          |             |     |      |     |
|------------------|----------|-------------|-----|------|-----|
| Visc @ 100°C     | cSt      | <b>12.3</b> | 9.7 | 12.4 | --- |
| Base Number (BN) | mg KOH/g | <b>8.1</b>  | 6.4 | ---  | --- |
| Oxidation (PA)   | %        | <b>67</b>   | 73  | 72   | --- |

## CONTAMINATION

|                |     |              |     |     |     |
|----------------|-----|--------------|-----|-----|-----|
| Soot %         | %   | <b>0.1</b>   | 0.2 | 0.1 | --- |
| Nitration (PA) | %   | <b>67</b>    | 90  | 76  | --- |
| Sulfation (PA) | %   | <b>53</b>    | 56  | 58  | --- |
| Glycol         | %   | <b>NEG</b>   | NEG | NEG | --- |
| Fuel           | %   | <b>4.9</b>   | 7.8 | 2.4 | --- |
| Silicon        | ppm | <b>4</b>     | 5   | 2   | --- |
| Sodium         | ppm | <b>2</b>     | 2   | 2   | --- |
| Potassium      | ppm | <b>&lt;1</b> | 0   | <1  | --- |

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.

## WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>6</b>     | 13 | 6  | --- |
| Copper     | ppm | <b>0</b>     | 2  | 2  | --- |
| Lead       | ppm | <b>0</b>     | 0  | <1 | --- |
| Tin        | ppm | <b>&lt;1</b> | <1 | <1 | --- |
| Aluminum   | ppm | <b>2</b>     | 1  | <1 | --- |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | --- |
| Molybdenum | ppm | <b>47</b>    | 51 | 42 | --- |
| Nickel     | ppm | <b>0</b>     | <1 | 0  | --- |
| Titanium   | ppm | <b>0</b>     | <1 | <1 | --- |
| Silver     | ppm | <b>0</b>     | <1 | 0  | --- |
| Manganese  | ppm | <b>&lt;1</b> | <1 | <1 | --- |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | --- |

## ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>1146</b> | 1336 | 1295 | --- |
| Magnesium  | ppm | <b>803</b>  | 616  | 637  | --- |
| Zinc       | ppm | <b>895</b>  | 833  | 870  | --- |
| Phosphorus | ppm | <b>730</b>  | 644  | 758  | --- |
| Barium     | ppm | <b>0</b>    | 0    | 0    | --- |
| Boron      | ppm | <b>44</b>   | 41   | 41   | --- |

**Depot:** VOLVO8882  
**Unique No:** 10629129  
**Signed:** Wes Davis  
**Report Date:** 01 Sep 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

