

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**STEPHEN ROBINSON PB42-03 VOLVO PENTA 390027314 - STARBOARD IPS**

**Sample No:** VPA047323

**Oil Type:** GEAR OIL SAE 75W90

## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA047323   | --- | --- | --- |
| Sample Date   | 24 Jul 2023 | --- | --- | --- |
| Machine Hours | 906         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

## OIL CONDITION

|             |     |       |     |     |     |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 105 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|

## CONTAMINATION

|           |     |         |     |     |     |
|-----------|-----|---------|-----|-----|-----|
| Water     | %   | ▲ 0.229 | --- | --- | --- |
| Silicon   | ppm | █ 11    | --- | --- | --- |
| Sodium    | ppm | █ 9     | --- | --- | --- |
| Potassium | ppm | █ 3     | --- | --- | --- |

## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| PQ         |     | █ 16 | --- | --- | --- |
| Iron       | ppm | █ 55 | --- | --- | --- |
| Copper     | ppm | █ 8  | --- | --- | --- |
| Lead       | ppm | █ 0  | --- | --- | --- |
| Tin        | ppm | █ 0  | --- | --- | --- |
| Aluminum   | ppm | █ 1  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ <1 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | █ 0  | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | █ 3  | --- | --- | --- |
| Vanadium   | ppm | █ 0  | --- | --- | --- |

## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 11   | --- | --- | --- |
| Magnesium  | ppm | █ 19   | --- | --- | --- |
| Zinc       | ppm | █ 31   | --- | --- | --- |
| Phosphorus | ppm | █ 1443 | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 323  | --- | --- | --- |

## GRAND BANKS

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## Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VP531377

**Unique No:** 10579389

**Signed:** Jonathan Hester

**Report Date:** 03 Aug 2023

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## GRAPHS

