

# OIL ANALYSIS REPORT

# VOLVO PENTA

## TIPSSSEA CHRISSEY 20379805 - INBOARD - STARBOARD GEARBOX

**Sample No:** VPA047900  
**Oil Type:** SHELL ROTELLA T 30

### SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VPA047900</b>   | VPA025148   | VPA043411   | --- |
| Sample Date   | <b>10 Oct 2023</b> | 30 Sep 2022 | 01 Feb 2022 | --- |
| Machine Hours | <b>178</b>         | 120         | 72          | --- |
| Oil Hours     | <b>57</b>          | 71          | 72          | --- |
| Oil Changed   | <b>Changed</b>     | N/A         | Not Changd  | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | --- |

### OIL CONDITION

|             |     |             |      |       |     |
|-------------|-----|-------------|------|-------|-----|
| Visc @ 40°C | cSt | <b>87.0</b> | 88.7 | 85.99 | --- |
|-------------|-----|-------------|------|-------|-----|

### CONTAMINATION

|           |     |          |    |   |     |
|-----------|-----|----------|----|---|-----|
| Silicon   | ppm | <b>5</b> | 7  | 6 | --- |
| Sodium    | ppm | <b>4</b> | 2  | 0 | --- |
| Potassium | ppm | <b>3</b> | <1 | 1 | --- |

### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| PQ         |     | <b>25</b>    | 17  | 31  | --- |
| Iron       | ppm | <b>6</b>     | 12  | 19  | --- |
| Copper     | ppm | <b>167</b>   | 103 | 112 | --- |
| Lead       | ppm | <b>2</b>     | <1  | <1  | --- |
| Tin        | ppm | <b>&lt;1</b> | <1  | <1  | --- |
| Aluminum   | ppm | <b>1</b>     | 2   | 5   | --- |
| Chromium   | ppm | <b>0</b>     | <1  | <1  | --- |
| Molybdenum | ppm | <b>105</b>   | 109 | 93  | --- |
| Nickel     | ppm | <b>0</b>     | 0   | 0   | --- |
| Titanium   | ppm | <b>0</b>     | 0   | 0   | --- |
| Silver     | ppm | <b>0</b>     | 0   | 0   | --- |
| Manganese  | ppm | <b>0</b>     | <1  | <1  | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | --- |

### ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>2292</b> | 2466 | 1676 | --- |
| Magnesium  | ppm | <b>58</b>   | 132  | 451  | --- |
| Zinc       | ppm | <b>1051</b> | 1107 | 884  | --- |
| Phosphorus | ppm | <b>858</b>  | 997  | 857  | --- |
| Barium     | ppm | <b>0</b>    | 2    | <1   | --- |
| Boron      | ppm | <b>26</b>   | 49   | 185  | --- |

#### The Talaria Company

202 Banks St., One Little Harbor Landing  
OXFORD, MD  
US 21654  
Contact: TRACY PELLERIN  
tpellerin@hinckleyyachts.com  
T: (410)770-4899  
F: x:

#### 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 condition of the oil is suitable for further service.

**Depot:** VP592286  
**Unique No:** 10722977  
**Signed:** Don Baldrige  
**Report Date:** 01 Nov 2023

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## GRAPHS

