

# OIL ANALYSIS REPORT

# VOLVO PENTA

**19228 3950004198 - STARBOARD IPS**

**Sample No:** VPA041250

**Oil Type:** NOT GIVEN

## SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VPA041250</b>   | VPA039458   | --- | --- |
| Sample Date   | <b>25 Aug 2023</b> | 31 Aug 2022 | --- | --- |
| Machine Hours | <b>0</b>           | 0           | --- | --- |
| Oil Hours     | <b>0</b>           | 0           | --- | --- |
| Oil Changed   | <b>N/A</b>         | N/A         | --- | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | --- | --- |

### Sea Power Ltd

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## OIL CONDITION

|             |     |            |      |     |     |
|-------------|-----|------------|------|-----|-----|
| Visc @ 40°C | cSt | <b>102</b> | 99.1 | --- | --- |
|-------------|-----|------------|------|-----|-----|

## CONTAMINATION

|           |     |              |    |     |     |
|-----------|-----|--------------|----|-----|-----|
| Silicon   | ppm | <b>3</b>     | 4  | --- | --- |
| Sodium    | ppm | <b>1</b>     | 2  | --- | --- |
| Potassium | ppm | <b>&lt;1</b> | <1 | --- | --- |

## WEAR METALS

|            |     |              |    |     |     |
|------------|-----|--------------|----|-----|-----|
| PQ         |     | <b>0</b>     | 0  | --- | --- |
| Iron       | ppm | <b>15</b>    | 16 | --- | --- |
| Copper     | ppm | <b>2</b>     | 4  | --- | --- |
| Lead       | ppm | <b>&lt;1</b> | 1  | --- | --- |
| Tin        | ppm | <b>0</b>     | 0  | --- | --- |
| Aluminum   | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Chromium   | ppm | <b>0</b>     | 0  | --- | --- |
| Molybdenum | ppm | <b>&lt;1</b> | 0  | --- | --- |
| Nickel     | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Titanium   | ppm | <b>0</b>     | 0  | --- | --- |
| Silver     | ppm | <b>0</b>     | 0  | --- | --- |
| Manganese  | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0  | --- | --- |

## ADDITIVES

|            |     |             |     |     |     |
|------------|-----|-------------|-----|-----|-----|
| Calcium    | ppm | <b>3</b>    | 4   | --- | --- |
| Magnesium  | ppm | <b>4</b>    | 4   | --- | --- |
| Zinc       | ppm | <b>4</b>    | 3   | --- | --- |
| Phosphorus | ppm | <b>1398</b> | 448 | --- | --- |
| Barium     | ppm | <b>0</b>    | 0   | --- | --- |
| Boron      | ppm | <b>264</b>  | 35  | --- | --- |

## Diagnosis

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 condition of the oil is acceptable for the time in service.

**Depot:** VP154139

**Unique No:** 5632855

**Signed:** Kevin Marson

**Report Date:** 01 Sep 2023

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## GRAPHS

