

# OIL ANALYSIS REPORT

# VOLVO PENTA

**PHU HOANG SEA CAT III VOLVO PENTA F3940024268 - STARBOARD IPS**

**Sample No:** VPA028574

**Oil Type:** VOLVO API GL-5 SAE 75W90

## SAMPLE INFORMATION

Sample Number	<b>VPA028574</b>	VPA034897	---	---
Sample Date	<b>20 Jun 2023</b>	06 Jan 2021	---	---
Machine Hours	<b>0</b>	1208	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>N/A</b>	Not Changd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>105</b>	100	---	---
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## CONTAMINATION

Silicon	ppm	<b>10</b>	24	---	---
Sodium	ppm	<b>2</b>	3	---	---
Potassium	ppm	<b>&lt;1</b>	0	---	---

## 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 acceptable for the time in service.

## WEAR METALS

PQ		<b>16</b>	21	---	---
Iron	ppm	<b>54</b>	45	---	---
Copper	ppm	<b>10</b>	12	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>&lt;1</b>	2	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>0</b>	<1	---	---
Nickel	ppm	<b>0</b>	1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>2</b>	4	---	---
Vanadium	ppm	<b>0</b>	1	---	---

## ADDITIVES

Calcium	ppm	<b>6</b>	9	---	---
Magnesium	ppm	<b>9</b>	86	---	---
Zinc	ppm	<b>2</b>	14	---	---
Phosphorus	ppm	<b>1297</b>	1357	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>332</b>	294	---	---

**Depot:** VP288530  
**Unique No:** 10546305  
**Signed:** Jonathan Hester  
**Report Date:** 07 Jul 2023

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**VOLVO  
PENTA**

## GRAPHS

