

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**GARRISON NORTON 3252-223 VOLVO PENTA 3950006979 - STARBOARD IPS**

**Sample No:** VPA258850

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

## SAMPLE INFORMATION

Sample Number	<b>VPA258850</b>	VPA045244	VPA039685	---
Sample Date	<b>12 Jul 2023</b>	30 Aug 2022	20 Oct 2021	---
Machine Hours	<b>266</b>	198	97	---
Oil Hours	<b>68</b>	100	97	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

## GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

Contact: ROBERT ANTONA

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## OIL CONDITION

Visc @ 40°C	cSt	<b>108</b>	107	97.1	---
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## CONTAMINATION

Silicon	ppm	<b>1</b>	2	11	---
Sodium	ppm	<b>0</b>	3	11	---
Potassium	ppm	<b>2</b>	0	9	---

## WEAR METALS

PQ		---	13	21	---
Iron	ppm	<b>13</b>	21	53	---
Copper	ppm	<b>3</b>	5	16	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>0</b>	<1	3	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>&lt;1</b>	0	<1	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>1</b>	2	10	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>4</b>	13	129	---
Magnesium	ppm	<b>25</b>	127	1592	---
Zinc	ppm	<b>5</b>	10	45	---
Phosphorus	ppm	<b>1341</b>	1385	2772	---
Barium	ppm	<b>0</b>	3	0	---
Boron	ppm	<b>334</b>	417	1054	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

**Depot:** VP531377

**Unique No:** 10561631

**Signed:** Sean Felton

**Report Date:** 19 Jul 2023

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## GRAPHS

