

# OIL ANALYSIS REPORT

# VOLVO PENTA

**105200 GALATI 105200 VOLVO PENTA A1052141 - STERNDRIVE - PORT GEARBOX**

**Sample No:** VPA044386

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

## SAMPLE INFORMATION

Sample Number	<b>VPA044386</b>	VPA047027	VPA034860	---
Sample Date	<b>14 Aug 2023</b>	11 Jul 2022	02 Jun 2021	---
Machine Hours	<b>211</b>	172	70	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>SEVERE</b>	SEVERE	ATTENTION	---

### Suncoast Diesel Marine Inc.

610 Mount Vernan St

OLDSMAR, FL

US 34677

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## OIL CONDITION

Visc @ 40°C	cSt	<b>101</b>	105	97.9	---
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## CONTAMINATION

Water	%	<b>1.06</b>	0.977	---	---
Silicon	ppm	<b>3</b>	2	2	---
Sodium	ppm	<b>78</b>	71	16	---
Potassium	ppm	<b>4</b>	0	1	---

## WEAR METALS

PQ		<b>15</b>	17	31	---
Iron	ppm	<b>265</b>	474	185	---
Copper	ppm	<b>&lt;1</b>	2	2	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>6</b>	5	2	---
Chromium	ppm	<b>3</b>	5	5	---
Molybdenum	ppm	<b>0</b>	<1	1	---
Nickel	ppm	<b>13</b>	7	4	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	4	<1	---
Manganese	ppm	<b>3</b>	8	20	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>126</b>	13	52	---
Magnesium	ppm	<b>17</b>	10	6	---
Zinc	ppm	<b>20</b>	17	32	---
Phosphorus	ppm	<b>1500</b>	1335	1340	---
Barium	ppm	<b>0</b>	0	3	---
Boron	ppm	<b>260</b>	292	225	---

## Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The high sodium (Na) level indicates the possible presence of salt water. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VP945077

**Unique No:** 10615286

**Signed:** Doug Bogart

**Report Date:** 22 Aug 2023

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**VOLVO  
PENTA**

## GRAPHS

