

# OIL ANALYSIS REPORT



## SAM LEACH VOLVO PENTA 3194009783 - PORT IPS

**Sample No:** VPA036750  
**Oil Type:** GEAR OIL SAE 75W90

### SAMPLE INFORMATION

Sample Number	<b>VPA036750</b>	VPA046578	VPA031011	---
Sample Date	<b>16 Nov 2023</b>	23 Dec 2021	16 Jan 2021	---
Machine Hours	<b>1047</b>	1106	1047	---
Oil Hours	<b>0</b>	60	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	---

**FULL KEEL MARINE SERVICES**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>84.8</b>	106	103	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>8</b>	15	38	---
Sodium	ppm	<b>2</b>	16	9	---
Potassium	ppm	<b>3</b>	<1	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 fluid. The condition of the fluid is acceptable for the time in service.

### WEAR METALS

PQ		<b>18</b>	39	148	---
Iron	ppm	<b>72</b>	288	225	---
Copper	ppm	<b>4</b>	22	18	---
Lead	ppm	<b>0</b>	<1	0	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>1</b>	13	9	---
Chromium	ppm	<b>&lt;1</b>	2	2	---
Molybdenum	ppm	<b>0</b>	<1	0	---
Nickel	ppm	<b>&lt;1</b>	3	3	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	<1	2	---
Manganese	ppm	<b>2</b>	4	4	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>7</b>	7	11	---
Magnesium	ppm	<b>3</b>	3	8	---
Zinc	ppm	<b>9</b>	19	77	---
Phosphorus	ppm	<b>427</b>	1374	1268	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>37</b>	327	238	---

**Depot:** VP1298996  
**Unique No:** 10752664  
**Signed:** Sean Felton  
**Report Date:** 22 Nov 2023

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**VOLVO  
PENTA**

## GRAPHS

