

# OIL ANALYSIS REPORT

# VOLVO PENTA

**JOE FRANCO ONAN G060950441 - GENSET**

**Sample No:** VPA060203

**Oil Type:** SHELL ROTELLA T4 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA060203</b>	VPA039989	---	---
Sample Date	<b>05 Oct 2023</b>	15 Nov 2021	---	---
Machine Hours	<b>0</b>	0	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Not Changd</b>	Not Changd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

## OIL CONDITION

Visc @ 100°C	cSt	<b>14.4</b>	14.3	---	---
Base Number (BN)	mg KOH/g	<b>7.8</b>	---	---	---
Oxidation (PA)	%	<b>61</b>	65	---	---

## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>48</b>	65	---	---
Sulfation (PA)	%	<b>53</b>	57	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>3</b>	5	---	---
Sodium	ppm	<b>3</b>	2	---	---
Potassium	ppm	<b>7</b>	0	---	---

## WEAR METALS

Iron	ppm	<b>7</b>	16	---	---
Copper	ppm	<b>&lt;1</b>	2	---	---
Lead	ppm	<b>0</b>	<1	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>8</b>	1	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>10</b>	49	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	<1	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>1871</b>	1547	---	---
Magnesium	ppm	<b>118</b>	570	---	---
Zinc	ppm	<b>1027</b>	847	---	---
Phosphorus	ppm	<b>872</b>	689	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>232</b>	191	---	---

## BAY MARINE

3 E MADISON ST

WAUKEGAN, IL

US 60085

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T:

F:

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VP1174336

**Unique No:** 10683857

**Signed:** Don Baldrige

**Report Date:** 10 Oct 2023

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## GRAPHS

