

# OIL ANALYSIS REPORT

# VOLVO PENTA

**3684/NAUTI DOG FISCHER PANDA 2005606 - CENTER GENSET**

**Sample No:** VPA049522  
**Oil Type:** SHELL 15W40

## SAMPLE INFORMATION

Sample Number	VPA049522	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	214	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

## GRAND BANKS

450 SW SALEM RD  
STUART, FL  
US 34994  
Contact: ROBERT ANTONA  
roberta@gbmarinegroup.com  
T: (609)384-5290  
F:

## OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	8.5	---	---	---
Oxidation (PA)	%	67	---	---	---

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 6	---	---	---

## WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 2454	---	---	---
Magnesium	ppm	█ 16	---	---	---
Zinc	ppm	█ 1176	---	---	---
Phosphorus	ppm	█ 953	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 139	---	---	---

## 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 suitable for further service.

**Depot:** VP531377  
**Unique No:** 10888857  
**Signed:** Sean Felton  
**Report Date:** 23 Feb 2024

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## GRAPHS

