

# OIL ANALYSIS REPORT

# VOLVO PENTA

**3196-335 FISCHER PANDA 2103549 - GENSET**

**Sample No:** VPA258841

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

## SAMPLE INFORMATION

Sample Number	VPA258841	---	---	---
Sample Date	14 Jul 2023	---	---	---
Machine Hours	44	---	---	---
Oil Hours	44	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	---	---	---
Base Number (BN)	mg KOH/g	█ 10.7	---	---	---
Oxidation (PA)	%	37	---	---	---

## CONTAMINATION

Water	%	▲ 0.241	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	39	---	---	---
Sulfation (PA)	%	44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

## WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	▲ 73	---	---	---
Lead	ppm	█ 8	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 50	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 3593	---	---	---
Magnesium	ppm	█ 144	---	---	---
Zinc	ppm	█ 1174	---	---	---
Phosphorus	ppm	█ 981	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 127	---	---	---

### GRAND BANKS

450 SW SALEM RD  
STUART, FL  
US 34994

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### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other metal levels are typical for a new component breaking in. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present 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:** VP531377

**Unique No:** 10566555

**Signed:** Doug Bogart

**Report Date:** 26 Jul 2023

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**VOLVO  
PENTA**

## GRAPHS

