

# OIL ANALYSIS REPORT

# VOLVO PENTA

**NEIL BOOK 505842 NORTHERN LIGHTS 8442-59225 - GENSET**

**Sample No:** VPA052164

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

## SAMPLE INFORMATION

Sample Number	VPA052164	---	---	---
Sample Date	02 Feb 2024	---	---	---
Machine Hours	450	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**Jefferson Beach Yacht Sales Inc**

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## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	---	---	---
Base Number (BN)	mg KOH/g	■ 7.7	---	---	---
Oxidation (PA)	%	47	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.2	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 35	---	---	---

## WEAR METALS

Iron	ppm	■ 7	---	---	---
Copper	ppm	■ 8	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 61	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	■ 1907	---	---	---
Magnesium	ppm	■ 400	---	---	---
Zinc	ppm	■ 1071	---	---	---
Phosphorus	ppm	■ 910	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 55	---	---	---

**Depot:** VP297371

**Unique No:** 10874359

**Signed:** Sean Felton

**Report Date:** 14 Feb 2024

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PENTA**

## GRAPHS

