

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**ROGER CONDO 42881 CUMMINS/ONAN A190465966 - GENSET**

**Sample No:** VPA043102

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

## SAMPLE INFORMATION

Sample Number	<b>VPA043102</b>	VPA047488	---	---
Sample Date	<b>01 Nov 2023</b>	20 Mar 2023	---	---
Machine Hours	<b>329</b>	290	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>ATTENTION</b>	MARGINAL	---	---

**COASTAL CAROLINA YACHT SALES**

145 LOCKWOOD BLVD

CHARLESTON, SC

US 29403

Contact: STEVE VASAS

steve@ccyachtsales.com

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## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.3</b>	▲ 12.3	---	---
Base Number (BN)	mg KOH/g	<b>■ 9.9</b>	■ 9.9	---	---
Oxidation (PA)	%	<b>56</b>	57	---	---

## CONTAMINATION

Soot %	%	<b>■ 0.1</b>	■ 0.1	---	---
Nitration (PA)	%	<b>39</b>	44	---	---
Sulfation (PA)	%	<b>51</b>	52	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	▲ 3.3	---	---
Silicon	ppm	<b>■ 7</b>	■ 14	---	---
Sodium	ppm	<b>■ 0</b>	■ 2	---	---
Potassium	ppm	<b>■ 2</b>	■ <1	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

## WEAR METALS

Iron	ppm	<b>■ 3</b>	■ 5	---	---
Copper	ppm	<b>■ 1</b>	■ 3	---	---
Lead	ppm	<b>■ &lt;1</b>	■ <1	---	---
Tin	ppm	<b>■ 0</b>	■ <1	---	---
Aluminum	ppm	<b>■ 2</b>	■ 2	---	---
Chromium	ppm	<b>■ &lt;1</b>	■ <1	---	---
Molybdenum	ppm	<b>■ 58</b>	■ 56	---	---
Nickel	ppm	<b>■ &lt;1</b>	■ 0	---	---
Titanium	ppm	<b>&lt;1</b>	0	---	---
Silver	ppm	<b>■ 0</b>	■ 0	---	---
Manganese	ppm	<b>■ &lt;1</b>	■ <1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>■ 999</b>	■ 1084	---	---
Magnesium	ppm	<b>■ 892</b>	■ 864	---	---
Zinc	ppm	<b>■ 1156</b>	■ 1142	---	---
Phosphorus	ppm	<b>■ 1063</b>	■ 971	---	---
Barium	ppm	<b>■ 5</b>	■ 3	---	---
Boron	ppm	<b>■ &lt;1</b>	■ 5	---	---

**Depot:** VP568144

**Unique No:** 10728554

**Signed:** Jonathan Hester

**Report Date:** 09 Nov 2023

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## GRAPHS

