

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**BRIAN MARGETT 43083 CUMMINS/ONAN C180324396 - GENSET**

**Sample No:** VPA048576

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

## SAMPLE INFORMATION

Sample Number	<b>VPA048576</b>	VPA031442	---	---
Sample Date	<b>12 Jul 2023</b>	07 Feb 2022	---	---
Machine Hours	<b>170</b>	172	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	---	---

## COASTAL CAROLINA YACHT SALES

145 LOCKWOOD BLVD  
CHARLESTON, SC  
US 29403  
Contact: STEVE VASAS  
steve@ccyachtsales.com

T:  
F:

## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.6</b>	▲ 12.2	---	---
Base Number (BN)	mg KOH/g	<b>■ 10.1</b>	■ 10.9	---	---
Oxidation (PA)	%	<b>56</b>	61	---	---

## CONTAMINATION

Soot %	%	<b>■ 0</b>	■ 0.1	---	---
Nitration (PA)	%	<b>42</b>	50	---	---
Sulfation (PA)	%	<b>50</b>	55	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>▲ 3.8</b>	▲ 4.1	---	---
Silicon	ppm	<b>■ 9</b>	■ 12	---	---
Sodium	ppm	<b>■ 0</b>	■ 3	---	---
Potassium	ppm	<b>■ 2</b>	■ <1	---	---

## Diagnosis

We advise that you check the fuel injection system. 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 a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

## WEAR METALS

Iron	ppm	<b>■ 4</b>	■ 7	---	---
Copper	ppm	<b>■ 2</b>	■ 4	---	---
Lead	ppm	<b>■ 0</b>	■ <1	---	---
Tin	ppm	<b>■ &lt;1</b>	■ <1	---	---
Aluminum	ppm	<b>■ &lt;1</b>	■ 2	---	---
Chromium	ppm	<b>■ 0</b>	■ <1	---	---
Molybdenum	ppm	<b>■ 57</b>	■ 56	---	---
Nickel	ppm	<b>■ &lt;1</b>	■ 0	---	---
Titanium	ppm	<b>0</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>■ 1096</b>	1238	---	---
Magnesium	ppm	<b>■ 849</b>	838	---	---
Zinc	ppm	<b>■ 1135</b>	■ 1110	---	---
Phosphorus	ppm	<b>■ 992</b>	■ 1012	---	---
Barium	ppm	<b>■ 0</b>	■ 2	---	---
Boron	ppm	<b>■ 4</b>	■ 16	---	---

**Depot:** VP568144  
**Unique No:** 10561116  
**Signed:** Doug Bogart  
**Report Date:** 20 Jul 2023

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## GRAPHS

