

# OIL ANALYSIS REPORT



**KIMBERLY KITTELSON 505802 ONAN H170221167 - GENSET**

**Sample No:** VPA051099

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

## SAMPLE INFORMATION

Sample Number	<b>VPA051099</b>	VPA032962	---	---
Sample Date	<b>07 Feb 2024</b>	11 Feb 2021	---	---
Machine Hours	<b>433</b>	267	---	---
Oil Hours	<b>100</b>	90	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**Jefferson Beach Yacht Sales Inc**  
 24400 Jefferson Ave.  
 SAINT CLAIR SHORES, MI  
 US 48080  
 Contact: CORT CORINO  
 ccorino@jbys.com  
 T: (773)641-6947  
 F:

## OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	13.5	---	---
Base Number (BN)	mg KOH/g	<b>8.2</b>	---	---	---
Oxidation (PA)	%	<b>65</b>	58	---	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>50</b>	48	---	---
Sulfation (PA)	%	<b>55</b>	53	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>4</b>	5	---	---
Sodium	ppm	<b>2</b>	3	---	---
Potassium	ppm	<b>6</b>	<1	---	---

## 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 acceptable for the time in service.

## WEAR METALS

Iron	ppm	<b>3</b>	4	---	---
Copper	ppm	<b>&lt;1</b>	1	---	---
Lead	ppm	<b>&lt;1</b>	<1	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>1</b>	0	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>13</b>	57	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	<1	---	---
Manganese	ppm	<b>0</b>	<1	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>2046</b>	1037	---	---
Magnesium	ppm	<b>219</b>	913	---	---
Zinc	ppm	<b>1213</b>	1124	---	---
Phosphorus	ppm	<b>1047</b>	1028	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>162</b>	4	---	---

**Depot:** VP297371  
**Unique No:** 10874357  
**Signed:** Sean Felton  
**Report Date:** 14 Feb 2024

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# VOLVO PENTA

## GRAPHS

