

# OIL ANALYSIS REPORT

# VOLVO PENTA

**BENARD PETERS 6049 ONAN F180368374 - GENSET**

**Sample No:** VPA050814

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

## SAMPLE INFORMATION

Sample Number	<b>VPA050814</b>	VPA044445	VPA034199	---
Sample Date	<b>10 Aug 2023</b>	17 Mar 2023	24 Feb 2022	---
Machine Hours	<b>632</b>	541	348	---
Oil Hours	<b>100</b>	150	0	---
Oil Changed	<b>Not Changd</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	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>12.6</b>	12.3	12.5	---
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.4	11.2	---
Oxidation (PA)	%	<b>59</b>	61	64	---

## 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.

## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>50</b>	58	57	---
Sulfation (PA)	%	<b>51</b>	53	56	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	10	6	---
Sodium	ppm	<b>0</b>	1	1	---
Potassium	ppm	<b>&lt;1</b>	<1	0	---

## WEAR METALS

Iron	ppm	<b>2</b>	4	4	---
Copper	ppm	<b>&lt;1</b>	1	2	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>0</b>	0	1	---
Chromium	ppm	<b>0</b>	0	<1	---
Molybdenum	ppm	<b>63</b>	56	58	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1146</b>	1078	1065	---
Magnesium	ppm	<b>952</b>	921	983	---
Zinc	ppm	<b>1228</b>	1257	1220	---
Phosphorus	ppm	<b>1047</b>	982	1057	---
Barium	ppm	<b>2</b>	0	0	---
Boron	ppm	<b>0</b>	<1	3	---

**Depot:** VP297371

**Unique No:** 10603044

**Signed:** Don Baldrige

**Report Date:** 15 Aug 2023

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## GRAPHS

