

# OIL ANALYSIS REPORT

# VOLVO PENTA

## FRANK NICOLELLA 505821 VOLVO PENTA A231550 - PORT DIESEL ENGINE

Sample No: VPA056313

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA056313	VPA040256	VPA031681	---
Sample Date	10 Jan 2024	16 Dec 2021	18 Jan 2021	---
Machine Hours	466	457	377	---
Oil Hours	41	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Jefferson Beach Yacht Sales Inc

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 13.5	█ 13.5	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 10.5	---	---
Oxidation (PA)	%	54	57	56	---

### 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 suitable for further service.

### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.3	█ 0.3	█ 0.4	---
Nitration (PA)	%	43	47	48	---
Sulfation (PA)	%	52	54	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 6	█ <1	█ 6	---
Sodium	ppm	█ 1	█ 4	█ 3	---
Potassium	ppm	█ 0	█ <1	█ 0	---

### WEAR METALS

Iron	ppm	█ 17	█ 10	█ 14	---
Copper	ppm	█ 3	█ 3	█ 4	---
Lead	ppm	█ <1	█ <1	█ <1	---
Tin	ppm	█ <1	█ <1	█ 0	---
Aluminum	ppm	█ <1	█ 0	█ 2	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 59	█ 61	█ 63	---
Nickel	ppm	█ <1	█ <1	█ 1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ 0	█ <1	█ <1	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	█ 1011	█ 1068	█ 1183	---
Magnesium	ppm	982	█ 993	1020	---
Zinc	ppm	█ 1267	█ 1170	█ 1240	---
Phosphorus	ppm	█ 1069	█ 1070	█ 1096	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 2	█ <1	█ 4	---

Depot: VP297371

Unique No: 10832023

Signed: Angela Borella

Report Date: 17 Jan 2024

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## GRAPHS

