

# OIL ANALYSIS REPORT



## FOLLET 505665 VOLVO PENTA 7011482076 - PORT DIESEL ENGINE

**Sample No:** VPA051101  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	<b>VPA051101</b>	VPA041051	VPA029940	VPA031598
Sample Date	<b>25 Mar 2024</b>	14 Mar 2023	18 Jan 2022	10 Feb 2021
Machine Hours	<b>287</b>	237	197	96
Oil Hours	<b>287</b>	40	100	96
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**Jefferson Beach Yacht Sales Inc**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.8	12.7	11.3
Base Number (BN)	mg KOH/g	<b>7.9</b>	10.4	10.4	---
Oxidation (PA)	%	<b>51</b>	55	62	67

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.8	0.4
Nitration (PA)	%	<b>56</b>	48	64	50
Sulfation (PA)	%	<b>49</b>	53	61	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	2.0
Silicon	ppm	<b>6</b>	7	13	45
Sodium	ppm	<b>0</b>	<1	1	4
Potassium	ppm	<b>2</b>	<1	1	0

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>5</b>	4	12	16
Copper	ppm	<b>11</b>	11	36	42
Lead	ppm	<b>&lt;1</b>	<1	2	2
Tin	ppm	<b>&lt;1</b>	0	11	0
Aluminum	ppm	<b>2</b>	0	0	2
Chromium	ppm	<b>&lt;1</b>	0	<1	1
Molybdenum	ppm	<b>66</b>	56	50	2
Nickel	ppm	<b>&lt;1</b>	0	<1	2
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>0</b>	0	0	0

### Diagnosis

### ADDITIVES

Calcium	ppm	<b>1749</b>	1054	1162	2791
Magnesium	ppm	<b>309</b>	920	838	71
Zinc	ppm	<b>1141</b>	1249	1049	1218
Phosphorus	ppm	<b>909</b>	958	994	1136
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>89</b>	<1	4	34

**Depot:** VP297371  
**Unique No:** 10954136  
**Signed:** Don Baldrige  
**Report Date:** 03 Apr 2024

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# VOLVO PENTA

## GRAPHS

