

# OIL ANALYSIS REPORT



## TYLER LOWELL 505831 VOLVO PENTA A683596 - PORT DIESEL ENGINE

**Sample No:** VPA062105  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA062105	VPA044858	VPA042222	VPA032316
Sample Date	27 Mar 2024	08 Feb 2023	25 Aug 2022	11 Mar 2021
Machine Hours	855	688	625	437
Oil Hours	167	100	100	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**Jefferson Beach Yacht Sales Inc**  
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 US 48080  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 13.6	█ 13.5	█ 13.6
Base Number (BN)	mg KOH/g	█ 9.9	█ 10.2	█ 11.3	---
Oxidation (PA)	%	█ 61	█ 58	█ 61	█ 58

### CONTAMINATION

Water	%	█ NEG	█ NEG	█ NEG	█ NEG
Soot %	%	█ 0.6	█ 0.2	█ 0.1	█ 0.3
Nitration (PA)	%	█ 63	█ 54	█ 52	█ 49
Sulfation (PA)	%	█ 55	█ 53	█ 55	█ 55
Glycol	%	█ NEG	█ NEG	█ NEG	█ NEG
Fuel	%	█ <1.0	█ <1.0	█ <1.0	█ <1.0
Silicon	ppm	█ 6	█ 5	█ 4	█ 2
Sodium	ppm	█ 0	█ <1	█ 1	█ 2
Potassium	ppm	█ 2	█ 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	█ 15	█ 9	█ 6	█ 12
Copper	ppm	█ 11	█ 5	█ 4	█ 5
Lead	ppm	█ 1	█ <1	█ <1	█ <1
Tin	ppm	█ 1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 2	█ <1	█ 2	█ <1
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 64	█ 60	█ 59	█ 59
Nickel	ppm	█ 2	█ 0	█ <1	█ <1
Titanium	ppm	█ <1	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ <1	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	█ 0	█ 0	█ <1	█ 0

### Diagnosis

### ADDITIVES

Calcium	ppm	█ 1119	█ 1098	█ 1016	█ 1145
Magnesium	ppm	█ 977	█ 937	█ 911	█ 1021
Zinc	ppm	█ 1226	█ 1260	█ 1225	█ 1252
Phosphorus	ppm	█ 971	█ 1045	█ 1021	█ 1100
Barium	ppm	█ 0	█ 0	█ <1	█ 0
Boron	ppm	█ <1	█ 2	█ 4	█ 4

**Depot:** VP297371  
**Unique No:** 10954135  
**Signed:** Don Baldrige  
**Report Date:** 03 Apr 2024

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# VOLVO PENTA

## GRAPHS

