

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JACK BROWN 505697 VOLVO PENTA 2013355960 - PORT DIESEL ENGINE

Sample No: VPA048816

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

### SAMPLE INFORMATION

Sample Number	VPA048816	VPA042390	VPA037098	---
Sample Date	29 Sep 2023	19 Sep 2022	04 Oct 2021	---
Machine Hours	760	718	462	---
Oil Hours	44	75	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

### Jefferson Beach Yacht Sales Inc

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.92	█ 13.5	█ 14.3	---
Base Number (BN)	mg KOH/g	█ 9.2	█ 10.6	---	---
Oxidation (PA)	%	50	61	63	---

### CONTAMINATION

Soot %	%	█ 0.2	█ 0.3	█ 0.2	---
Nitration (PA)	%	41	53	54	---
Sulfation (PA)	%	47	57	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 2	█ 4	█ 1	---
Sodium	ppm	█ <1	█ 2	█ 2	---
Potassium	ppm	█ <1	█ 2	█ 6	---

### Diagnosis

No corrective action is recommended at this time. 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	█ 2	█ 3	█ 2	---
Copper	ppm	█ <1	█ 1	█ 2	---
Lead	ppm	█ 0	█ 0	█ <1	---
Tin	ppm	█ 0	█ 0	█ <1	---
Aluminum	ppm	█ 5	█ 0	█ <1	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 57	█ 45	█ 4	---
Nickel	ppm	█ 0	█ 0	█ 0	---
Titanium	ppm	█ 0	█ 0	█ 0	---
Silver	ppm	█ 0	█ 0	█ <1	---
Manganese	ppm	█ 0	█ <1	█ <1	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	█ 1089	█ 1355	█ 2236	---
Magnesium	ppm	█ 958	767	█ 71	---
Zinc	ppm	█ 1273	█ 1262	█ 1171	---
Phosphorus	ppm	█ 1038	█ 1010	█ 982	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 7	█ 25	█ 142	---

Depot: VP297371

Unique No: 10673362

Signed: Doug Bogart

Report Date: 02 Oct 2023

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## GRAPHS

