

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## MIKE VOLKEMA 505549 VOLVO PENTA A1155769 - PORT DIESEL ENGINE

Sample No: VPA062137

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

### SAMPLE INFORMATION

Sample Number	VPA062137	VPA042211	---	---
Sample Date	02 Apr 2024	16 Sep 2022	---	---
Machine Hours	103	57	---	---
Oil Hours	46	57	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

### Jefferson Beach Yacht Sales Inc

24400 Jefferson Ave.  
SAINT CLAIR SHORES, MI  
US 48080

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F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.7	---	---
Base Number (BN)	mg KOH/g	█ 9.4	█ 9.1	---	---
Oxidation (PA)	%	54	57	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.2	---	---
Nitration (PA)	%	47	67	---	---
Sulfation (PA)	%	51	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 18	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 0	█ 4	---	---

### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	█ 9	█ 10	---	---
Copper	ppm	█ 5	█ 9	---	---
Lead	ppm	█ <1	█ 3	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 9	█ 32	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	█ 62	█ 74	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---

### ADDITIVES

Calcium	ppm	█ 1240	█ 2128	---	---
Magnesium	ppm	█ 781	97	---	---
Zinc	ppm	█ 1202	█ 1127	---	---
Phosphorus	ppm	█ 1044	█ 959	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 13	█ 62	---	---

Depot: VP297371

Unique No: 10965792

Signed: Sean Felton

Report Date: 10 Apr 2024

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## GRAPHS

