

# OIL ANALYSIS REPORT

# VOLVO PENTA

## DAVID GRAY YANMAR 0386 - STARBOARD DIESEL ENGINE

Sample No: VPA049997

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA049997	---	---	---
Sample Date	19 Apr 2024	---	---	---
Machine Hours	287	---	---	---
Oil Hours	1	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### YACHT BASIN MARINA

1866 OTTAWA BEACH RD

HOLLAND, MI

US 49424

Contact: OIL SAMPLE/PART

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### OIL CONDITION

Visc @ 100°C	cSt	█ 14.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	60	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ <1	---	---	---

### Diagnosis

No corrective action is recommended at this time. 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	█ 20	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 19	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 36	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1612	---	---	---
Magnesium	ppm	█ 429	---	---	---
Zinc	ppm	█ 1133	---	---	---
Phosphorus	ppm	█ 986	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 77	---	---	---

Depot: VP718610

Unique No: 10990928

Signed: Sean Felton

Report Date: 24 Apr 2024

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## GRAPHS

