

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JEREMY MCDONALD VOLVO PENTA A391429 - STARBOARD DIESEL ENGINE

Sample No: VPA042247

Oil Type: VOLVO

### SAMPLE INFORMATION

Sample Number	VPA042247	---	---	---
Sample Date	07 Dec 2023	---	---	---
Machine Hours	235	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

### SINGLETON MARINE

6930 LANIER ISLANDS PKWY

BUFORD, GA

US 30002

Contact: DJ HARDEE

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T: (770)614-3007

F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 15.1	---	---	---
Oxidation (PA)	%	24	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	28	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---

### Diagnosis

We advise an early resample to confirm this situation. Confirm component type. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate gear oil. Confirm oil type.

### WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	< 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	▲ 30	---	---	---
Magnesium	ppm	█ 11	---	---	---
Zinc	ppm	▲ 22	---	---	---
Phosphorus	ppm	█ 1332	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 333	---	---	---

Depot: VP159751

Unique No: 10780105

Signed: Doug Bogart

Report Date: 13 Dec 2023

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## GRAPHS

