

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ROBERT GALWAY 14816 YANMAR YANMAR 4JHE (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA049732

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA049732	---	---	---
Sample Date	19 Nov 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	59	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	44	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 4	---	---	---

### WEAR METALS

Iron	ppm	█ 43	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 50	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1870	---	---	---
Magnesium	ppm	█ 301	---	---	---
Zinc	ppm	█ 1240	---	---	---
Phosphorus	ppm	█ 1023	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 169	---	---	---

### PARTS & POWER

PO BOX 1305498, PMB1000-00  
ST THOMAS, VI  
US 00803  
Contact: KARIM PERSAUD  
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F:

### Diagnosis

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.

Depot: VP981217  
Unique No: 10751302  
Signed: Don Baldrige  
Report Date: 21 Nov 2023

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## GRAPHS

