

# OIL ANALYSIS REPORT



## BRIAN GROTTY 534297 YANMAR 3147 - STARBOARD DIESEL ENGINE

**Sample No:** VPA055681  
**Oil Type:** SHELL ROTELLA T4 15W40

### SAMPLE INFORMATION

Sample Number	VPA055681	---	---	---
Sample Date	15 Feb 2024	---	---	---
Machine Hours	1332	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**Jas Marine Service Inc.**  
 1009 Newman RD.  
 LAKE PARK, FL  
 US 33403  
 Contact: DEBBIE  
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 T: (561)844-3224  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	56	---	---	---

### 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 suitable for further service.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	38	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 11	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 53	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1603	---	---	---
Magnesium	ppm	368	---	---	---
Zinc	ppm	█ 1167	---	---	---
Phosphorus	ppm	█ 1035	---	---	---
Barium	ppm	█ 10	---	---	---
Boron	ppm	█ 111	---	---	---

**Depot:** VP152963  
**Unique No:** 10885576  
**Signed:** Don Baldrige  
**Report Date:** 20 Feb 2024

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# VOLVO PENTA

## GRAPHS

