

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JUSTIN DALINGER NORTHERN LIGHTS 8442-40364C - STARBOARD GENSET

Sample No: VPA044032

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA044032	---	---	---
Sample Date	04 Jun 2024	---	---	---
Machine Hours	2262	---	---	---
Oil Hours	150	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### LIBERTY LANDING MARINE

80 AUDREY ZAPP DR

JERSEY CITY, NJ

US 07305

Contact: JOHN PURINTON

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F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	65	---	---	---

### 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)	%	58	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 5	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	< 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1838	---	---	---
Magnesium	ppm	█ 456	---	---	---
Zinc	ppm	█ 1256	---	---	---
Phosphorus	ppm	█ 1012	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 75	---	---	---

Depot: VP454834

Unique No: 11071672

Signed: Sean Felton

Report Date: 12 Jun 2024

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## GRAPHS

