

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**JOHN BYRE 6422 NORTHERN LIGHTS M8441W23 8442-41623C - STARBOARD GENSET**

**Sample No:** VPA060570

**Oil Type:** NOT GIVEN

## SAMPLE INFORMATION

Sample Number	VPA060570	---	---	---
Sample Date	22 Nov 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### Northwest Diesel Power

1325 ROEDER AVE SUITE 103

BELLINGHAM, WA

US 98225

Contact: BRANDON ROBERTSON

parts@nwdieselpower.com

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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	8.4	---	---	---
Oxidation (PA)	%	49	---	---	---

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 3	---	---	---

## 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.

## WEAR METALS

Iron	ppm	█ 1	---	---	---
Copper	ppm	█ 0	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	4	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	1193	---	---	---
Magnesium	ppm	716	---	---	---
Zinc	ppm	833	---	---	---
Phosphorus	ppm	713	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	82	---	---	---

**Depot:** VP759009

**Unique No:** 10765413

**Signed:** Don Baldrige

**Report Date:** 03 Dec 2023

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## GRAPHS

