

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JAKE FARLEY NORTHERN LIGHTS 8642-36503C - PORT GENSET

Sample No: VPA051502

Oil Type: CAT DIESEL ENGINE OIL 15W40

### SAMPLE INFORMATION

Sample Number	VPA051502	---	---	---
Sample Date	14 Aug 2023	---	---	---
Machine Hours	3	---	---	---
Oil Hours	3	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	50	---	---	---

### CONTAMINATION

Water	%	█ 0.040	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	46	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	█ 0.0	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 20	---	---	---
Sodium	ppm	█ 12	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 56	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 55	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 2172	---	---	---
Magnesium	ppm	█ 720	---	---	---
Zinc	ppm	█ 1292	---	---	---
Phosphorus	ppm	█ 1142	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 181	---	---	---

#### Edward's Marine and Sons

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US 21842

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T:  
F:

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. The water content is negligible. Test for glycol is negative. No evidence of salt water present in the oil. 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.

Depot: VP551029  
Unique No: 10618327  
Signed: Doug Bogart  
Report Date: 30 Aug 2023

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## GRAPHS

