

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## MORARIS CUMMINS 35148280 - STARBOARD DIESEL ENGINE

Sample No: VPA058128

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA058128	---	---	---
Sample Date	14 Nov 2023	---	---	---
Machine Hours	783	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### BAY MARINE

3 E MADISON ST

WAUKEGAN, IL

US 60085

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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.3	---	---	---
Oxidation (PA)	%	67	---	---	---

### CONTAMINATION

Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 2	---	---	---

### 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	█ 87	---	---	---
Copper	ppm	█ 44	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 6	---	---	---
Molybdenum	ppm	█ 93	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1629	---	---	---
Magnesium	ppm	█ 605	---	---	---
Zinc	ppm	█ 1065	---	---	---
Phosphorus	ppm	█ 832	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 237	---	---	---

Depot: VP1174336

Unique No: 10741850

Signed: Sean Felton

Report Date: 16 Nov 2023

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## GRAPHS

