

# OIL ANALYSIS REPORT

# VOLVO PENTA

**DAVID BELL VOLVO PENTA 7009117712 - STARBOARD COOLANT**

**Sample No:** VPA058637

**Oil Type:** EXTENDED LIFE COOLANT

## SAMPLE INFORMATION

Sample Number	VPA058637	---	---	---
Sample Date	07 Jun 2024	---	---	---
Machine Hours	1945	---	---	---
Sample Status	NORMAL	---	---	---

## COOLANT CONDITION

pH	Scale 0-14	■ 7.82	---	---	---
Reserve Alkalinity	Scale 0-20	---	---	---	---
Nitrites	ppm	■ NT	---	---	---
Percentage Glycol	%	■ 43.2	---	---	---
Freezing Point	°C	■ -19	---	---	---

## CONTAMINATION

Coolant Appearance	normal	---	---	---
Coolant Color	Orange	---	---	---

### MARINE EVOLUTIONS

6831 HILL PARK DR  
LORTON, VA  
US 22079

Contact: TIM STAPLES  
tim@marineevolutions.com  
T: (703)345-0365

F:

### Diagnosis

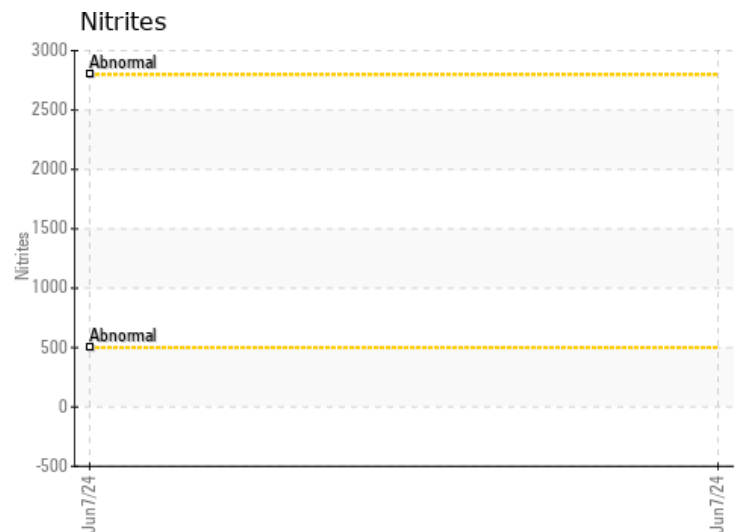
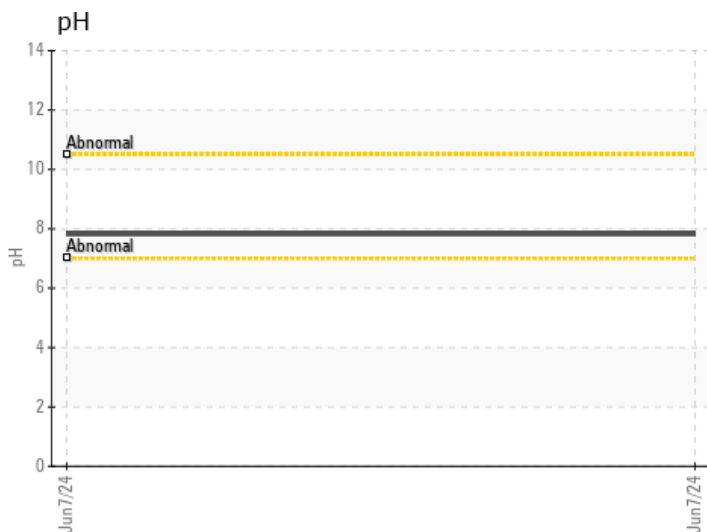
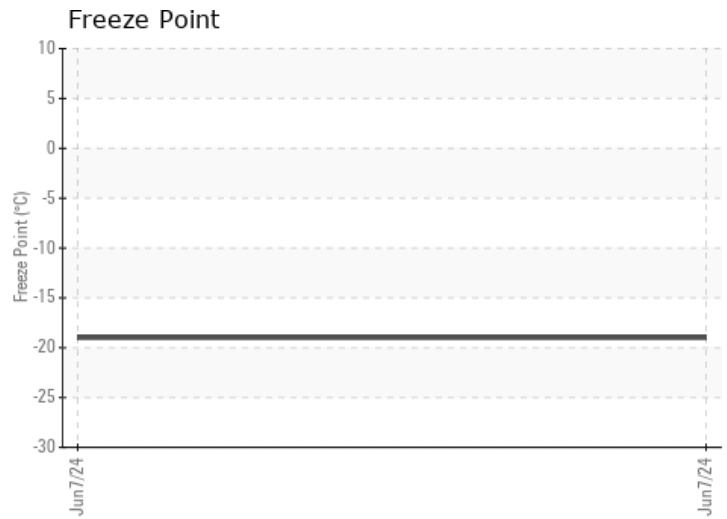
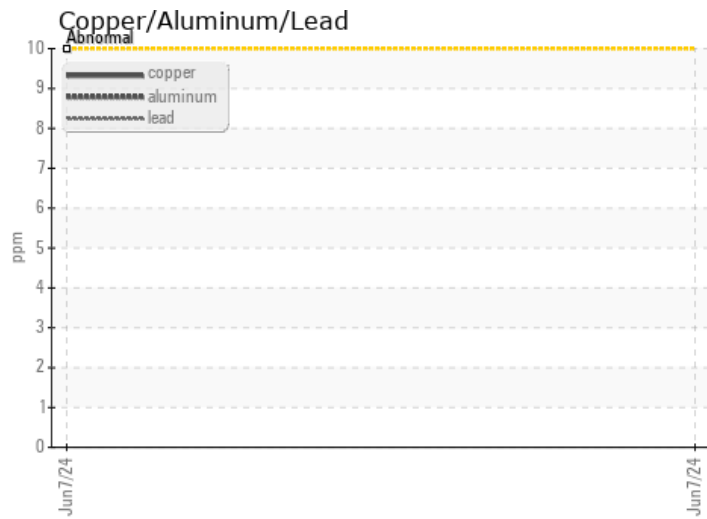
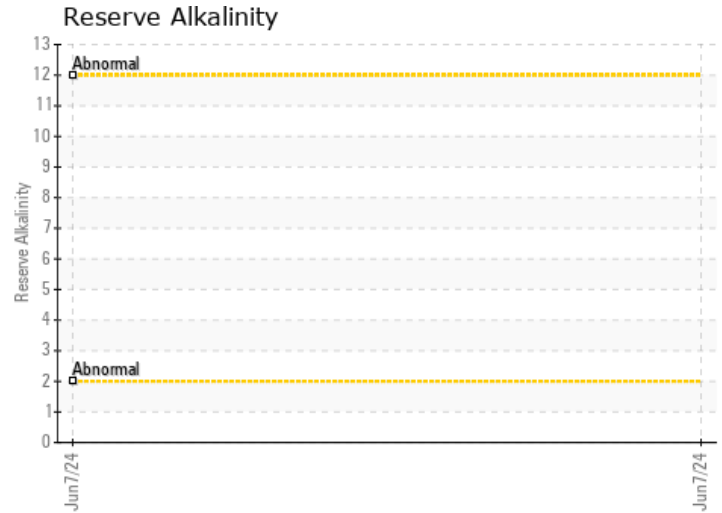
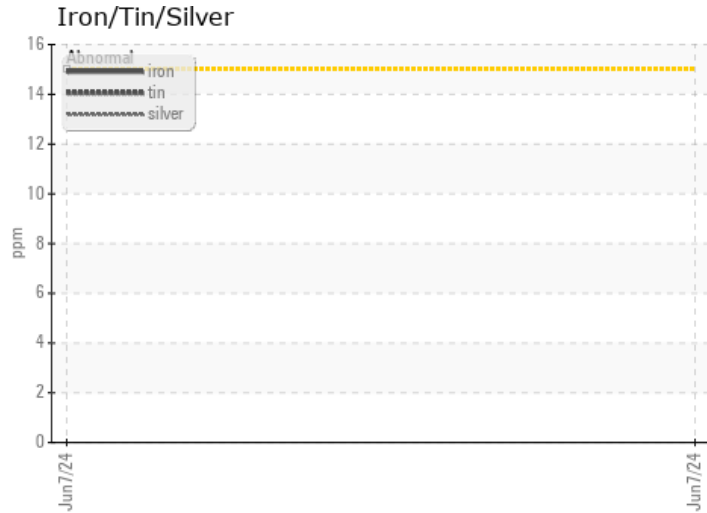
No corrective action is recommended at this time. The fluid is suitable for further service. There is no indication of any contamination in the coolant. Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

**Depot:** VP446360  
**Unique No:** 11075707  
**Signed:** Angela Borella  
**Report Date:** 14 Jun 2024

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## GRAPHS



# OIL ANALYSIS REPORT

# VOLVO PENTA

## DAVID BELL VOLVO PENTA 7009117712 - STARBOARD DIESEL ENGINE

Sample No: VPA058641

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA058641	---	---	---
Sample Date	07 Jun 2024	---	---	---
Machine Hours	1948	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### MARINE EVOLUTIONS

6831 HILL PARK DR  
LORTON, VA  
US 22079  
Contact: TIM STAPLES  
tim@marineevolutions.com  
T: (703)345-0365  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	61	---	---	---

### 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)	%	48	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 4	---	---	---

### WEAR METALS

Iron	ppm	█ 3	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 36	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1755	---	---	---
Magnesium	ppm	█ 400	---	---	---
Zinc	ppm	█ 1259	---	---	---
Phosphorus	ppm	█ 1115	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 112	---	---	---

Depot: VP446360  
Unique No: 11075062  
Signed: Angela Borella  
Report Date: 14 Jun 2024

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## GRAPHS

