

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**TNM 37976 PERKINS ED700584G19240 - PORT DIESEL ENGINE**

**Sample No:** VPA036767

**Oil Type:** NOT GIVEN

## SAMPLE INFORMATION

Sample Number	VPA036767	---	---	---
Sample Date	08 Aug 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 9.1	---	---	---
Oxidation (PA)	%	■ 63	---	---	---

## CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 51	---	---	---
Sulfation (PA)	%	■ 53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	◆ 11.3	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 15	---	---	---
Potassium	ppm	■ 35	---	---	---

## WEAR METALS

Iron	ppm	■ 96	---	---	---
Copper	ppm	■ 8	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	▲ 52	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 5	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	■ 2400	---	---	---
Magnesium	ppm	■ 63	---	---	---
Zinc	ppm	■ 1318	---	---	---
Phosphorus	ppm	■ 1150	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 214	---	---	---

### TRUE NORTH MARINE

1206 MARINA BAY DR  
CLEAR LAKE SHORES, TX  
US 77565

Contact: Brian Rogers  
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T:  
F:

### Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. The aluminum level is abnormal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VP975860  
**Unique No:** 10603045  
**Signed:** Don Baldrige  
**Report Date:** 15 Aug 2023

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## GRAPHS

