

# OIL ANALYSIS REPORT

# VOLVO PENTA

## WINDSERVE ME 1 PRE-FILTER VOLVO PENTA 10132167964 - PORT DIESEL ENGINE

Sample No: VPA045100  
Oil Type: VOLVO 10W40

### SAMPLE INFORMATION

Sample Number	VPA045100	---	---	---
Sample Date	16 Aug 2023	---	---	---
Machine Hours	2	---	---	---
Oil Hours	2	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.88	---	---	---
Base Number (BN)	mg KOH/g	█ 9.9	---	---	---
Oxidation (PA)	%	71	---	---	---

### CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 15	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---

### WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 45	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	< 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1740	---	---	---
Magnesium	ppm	█ 388	---	---	---
Zinc	ppm	█ 1072	---	---	---
Phosphorus	ppm	█ 884	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 77	---	---	---

### SENECO MARINE

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T:  
F:

### Diagnosis

Recommend drain oil if not already done and flush before refilling with oil. We advise that you inspect for the source(s) of metal. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. All component wear rates are normal. There is a high amount of particulates present in the oil. The condition of the oil is acceptable for the time in service.

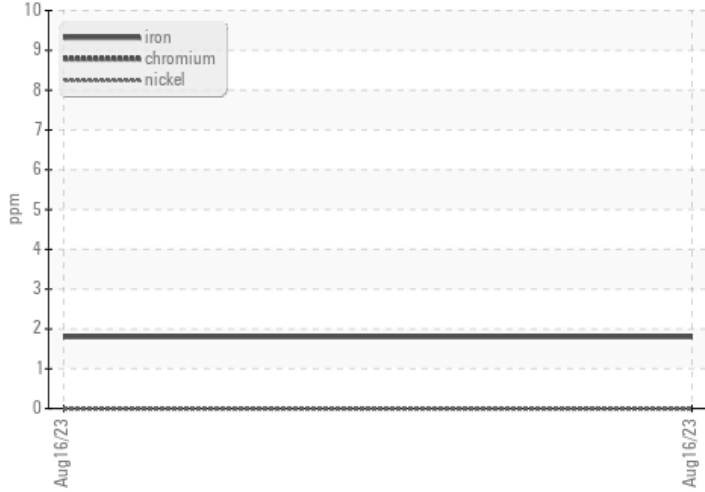
Depot: VPSENNOR  
Unique No: 10609064  
Signed: Doug Bogart  
Report Date: 21 Aug 2023

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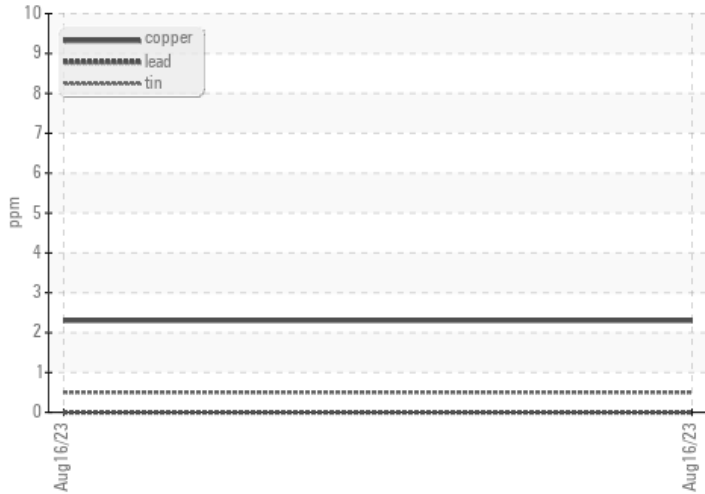
# VOLVO PENTA

## GRAPHS

### Ferrous Alloys



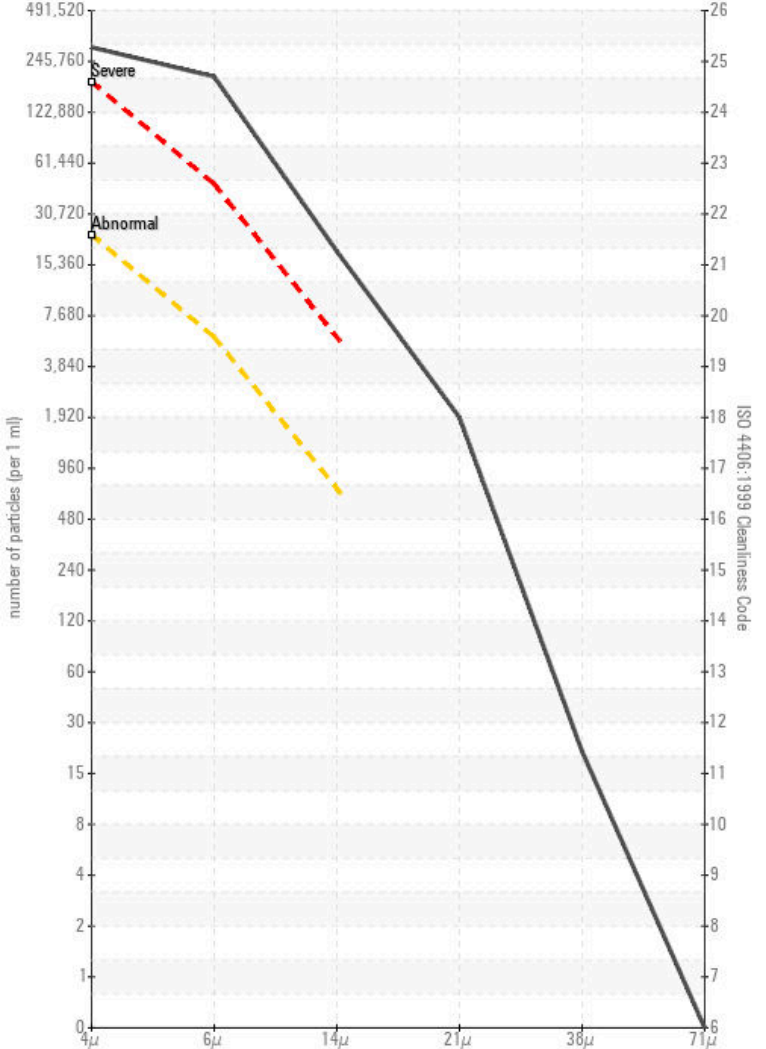
### Non-ferrous Metals



### Viscosity @ 100°C



### Particle Count



### Base Number

