

# OIL ANALYSIS REPORT

# VOLVO PENTA

## WINDSERVE VOLVO PENTA 10132167560 - DIESEL ENGINE

Sample No: VPA036064

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA036064	VPA045093	---	---
Sample Date	18 Aug 2023	18 Aug 2023	---	---
Machine Hours	1	1	---	---
Oil Hours	1	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	SEVERE	SEVERE	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.91	█ 12.91	---	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 10.0	---	---
Oxidation (PA)	%	71	71	---	---

### CONTAMINATION

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

### WEAR METALS

Iron	ppm	█ 2	█ 2	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 46	█ 45	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ 1	---	---
Vanadium	ppm	<1	<1	---	---

### ADDITIVES

Calcium	ppm	█ 1769	█ 1751	---	---
Magnesium	ppm	█ 391	█ 388	---	---
Zinc	ppm	█ 1087	█ 1078	---	---
Phosphorus	ppm	█ 893	█ 887	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 77	█ 77	---	---

### SENESCO MARINE

10 MACNAUGHT ST  
NORTH KINGSTOWN, RI  
US 02852

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T:  
F:

### Diagnosis

Oil and filter change at the time of sampling has been noted. Light 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.

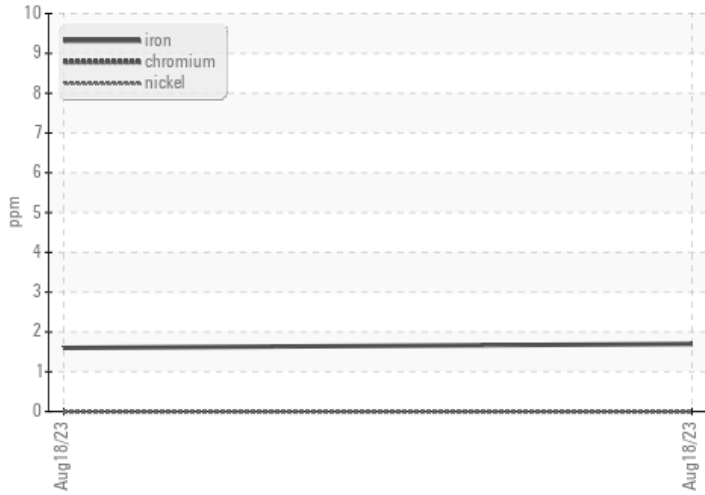
Depot: VPSENNOR  
Unique No: 10609073  
Signed: Doug Bogart  
Report Date: 21 Aug 2023

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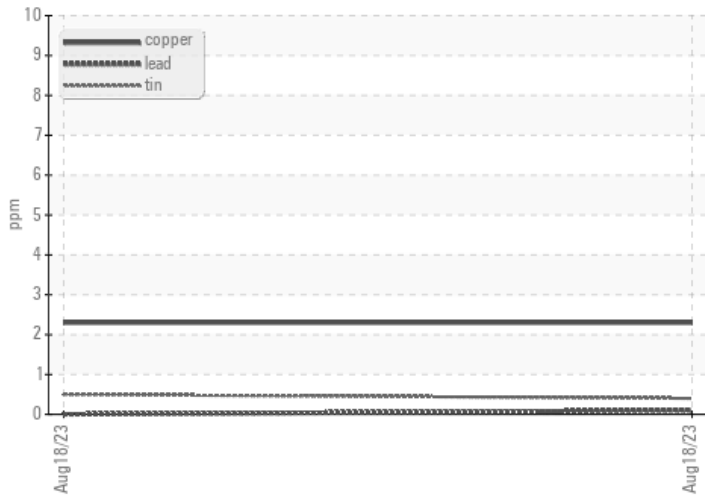
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## GRAPHS

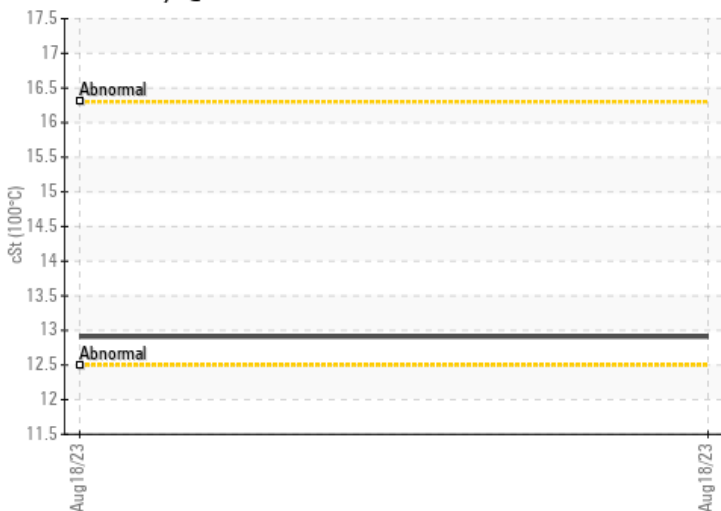
### Ferrous Alloys



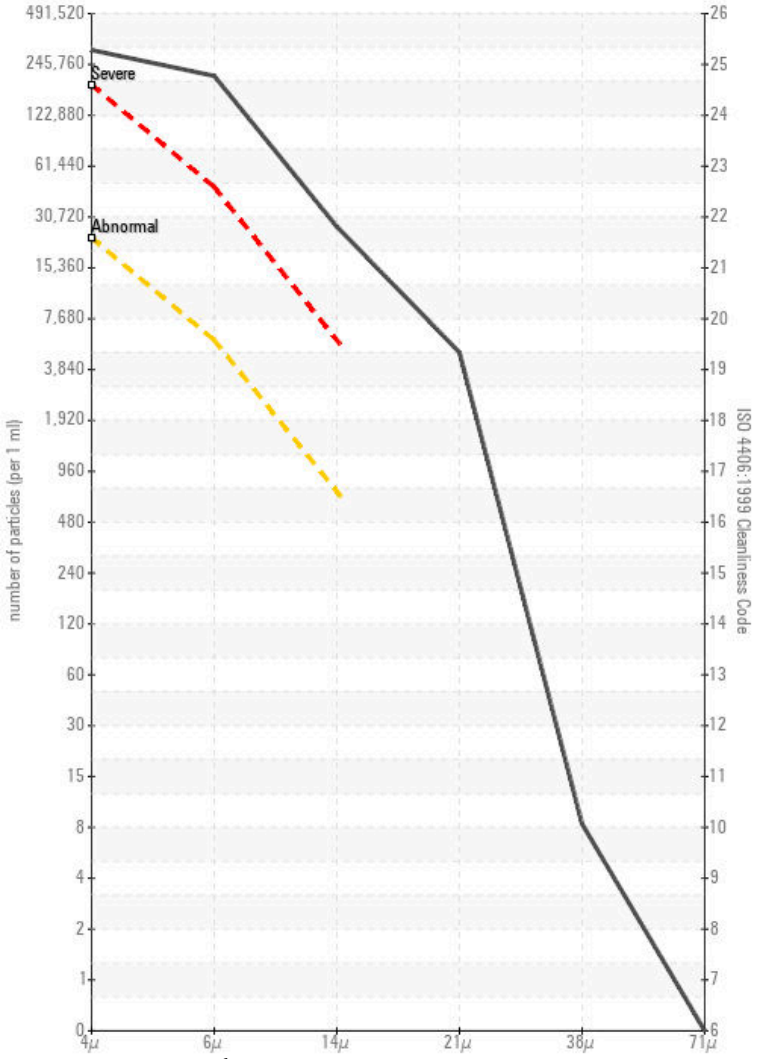
### Non-ferrous Metals



### Viscosity @ 100°C



### Particle Count



### Base Number

