

OIL ANALYSIS REPORT

**VOLVO
PENTA**

WINDSERVE VOLVO PENTA 10132167580 - STARBOARD DIESEL ENGINE

Sample No: VPA045095

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045095	---	---	---
Sample Date	18 Aug 2023	---	---	---
Machine Hours	1	---	---	---
Oil Hours	1	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

SENESCO MARINE

10 MACNAUGHT ST
NORTH KINGSTOWN, RI
US 02852

Contact: CLAUDINO LUCIANO
cluciano@senescmarine.com

T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.95	---	---	---
Base Number (BN)	mg KOH/g	█ 10.0	---	---	---
Oxidation (PA)	%	72	---	---	---

CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---

Diagnosis

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

WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 44	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1725	---	---	---
Magnesium	ppm	█ 389	---	---	---
Zinc	ppm	█ 1069	---	---	---
Phosphorus	ppm	█ 885	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 76	---	---	---

Depot: VPSENNOR

Unique No: 10609071

Signed: Doug Bogart

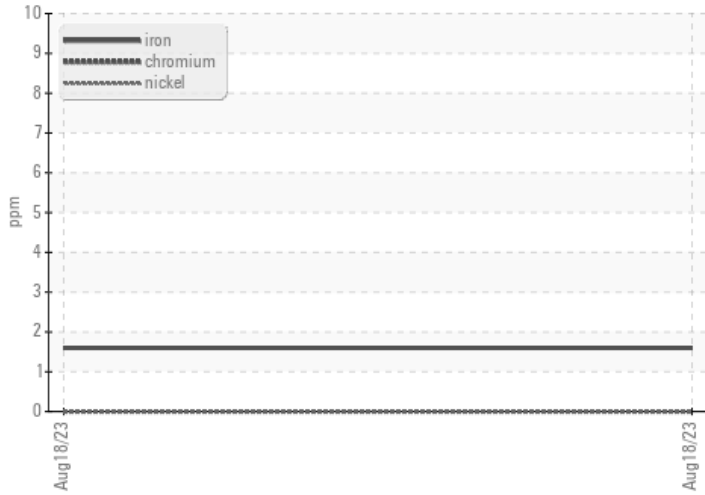
Report Date: 21 Aug 2023

OIL ANALYSIS REPORT

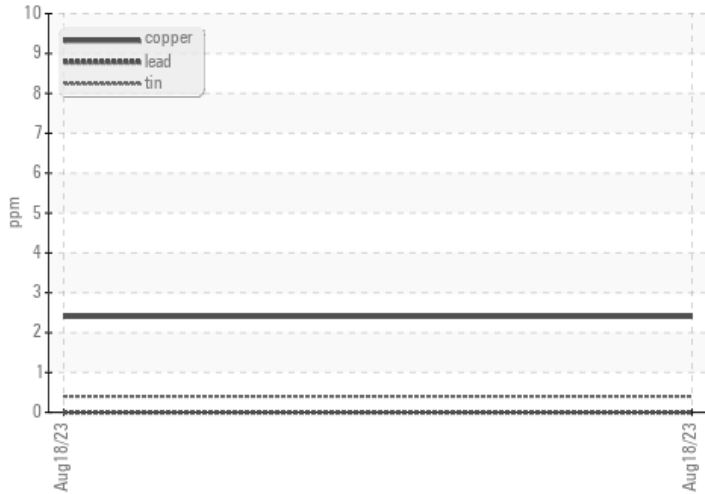
VOLVO PENTA

GRAPHS

Ferrous Alloys



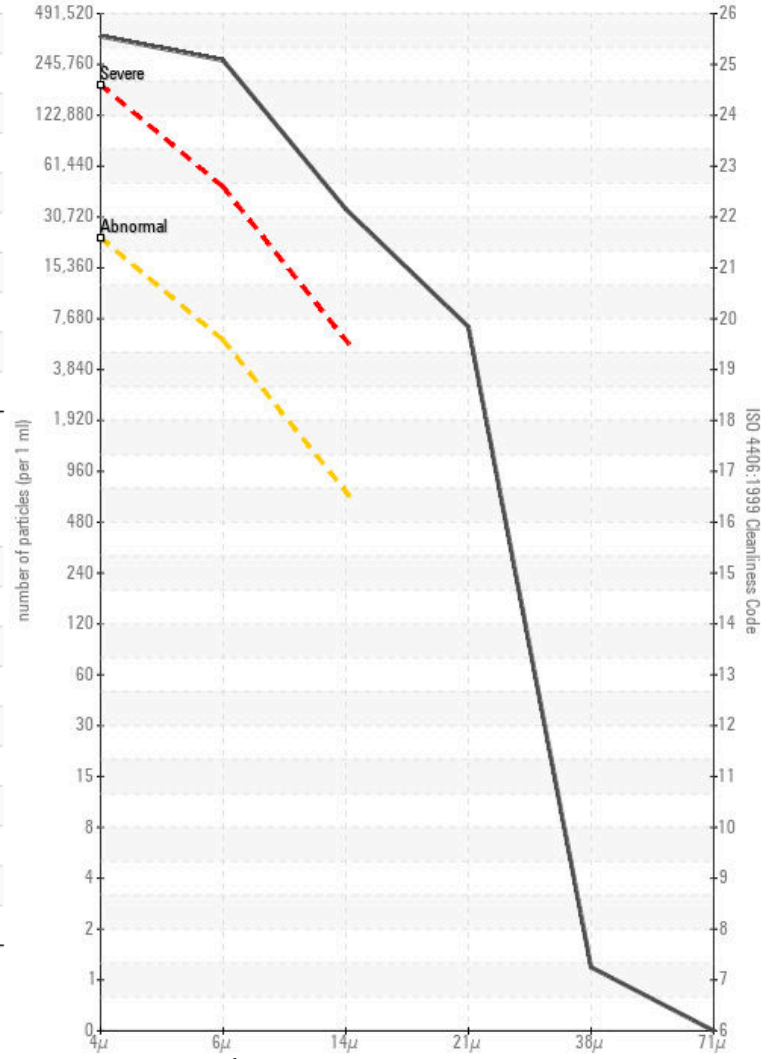
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

