

OIL ANALYSIS REPORT

VOLVO PENTA

WINDSERVE VOLVO PENTA 10132167964 - PORT DIESEL ENGINE

Sample No: VPA045097

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045097	VPA045094	VPA045100	---
Sample Date	17 Aug 2023	17 Aug 2023	16 Aug 2023	---
Machine Hours	1	2	2	---
Oil Hours	1	2	2	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	SEVERE	SEVERE	SEVERE	---

SENESCO MARINE

10 MACNAUGHT ST
NORTH KINGSTOWN, RI
US 02852

Contact: CLAUDINO LUCIANO
cluciano@senescomarine.com

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.91	█ 12.95	█ 12.88	---
Base Number (BN)	mg KOH/g	█ 8.0	█ 9.9	█ 9.9	---
Oxidation (PA)	%	█ 69	71	71	---

CONTAMINATION

Soot %	%	█ 0	█ 0	█ 0	---
Nitration (PA)	%	█ 42	43	43	---
Sulfation (PA)	%	█ 54	56	56	---
Glycol	%	█ NEG	NEG	NEG	---
Fuel	%	█ <1.0	<1.0	<1.0	---
Silicon	ppm	█ 15	█ 16	█ 15	---
Sodium	ppm	█ 3	█ 3	█ 3	---
Potassium	ppm	█ 3	█ 3	█ 3	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	█ 1763	█ 1780	█ 1740	---
Magnesium	ppm	█ 393	█ 398	█ 388	---
Zinc	ppm	█ 1086	█ 1107	█ 1072	---
Phosphorus	ppm	█ 899	█ 895	█ 884	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 77	█ 78	█ 77	---

Diagnosis

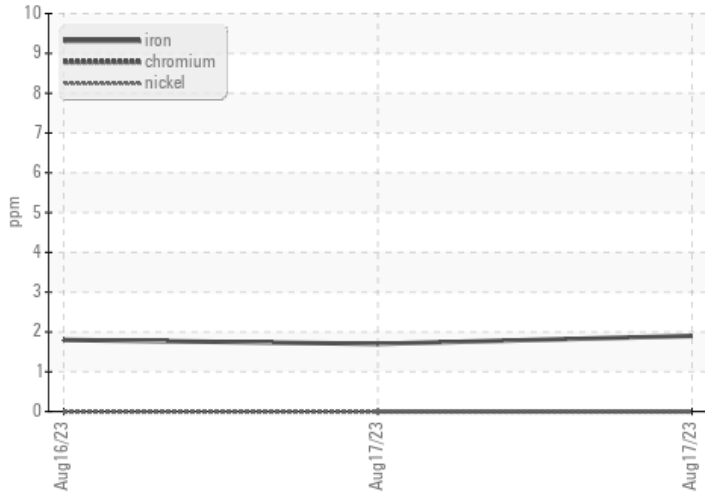
Oil and filter change at the time of sampling has been noted. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.

Depot: VPSENNOR
Unique No: 10609076
Signed: Doug Bogart
Report Date: 21 Aug 2023

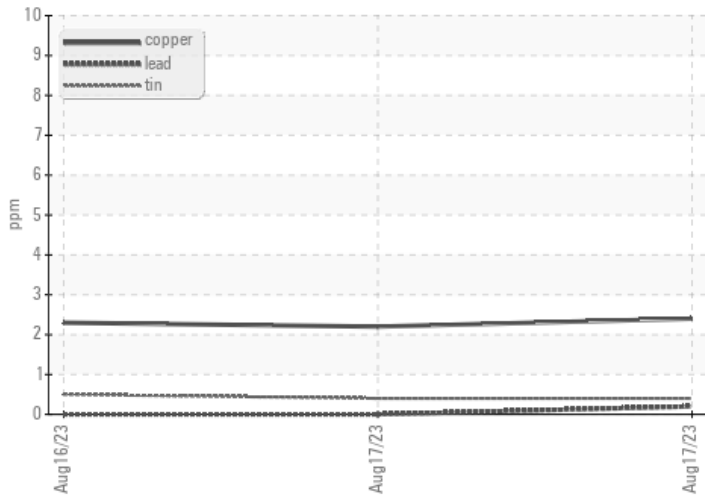
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GRAPHS

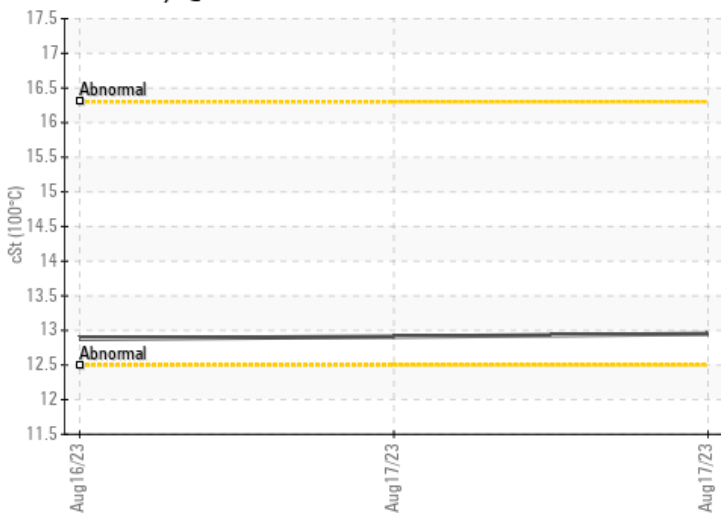
Ferrous Alloys



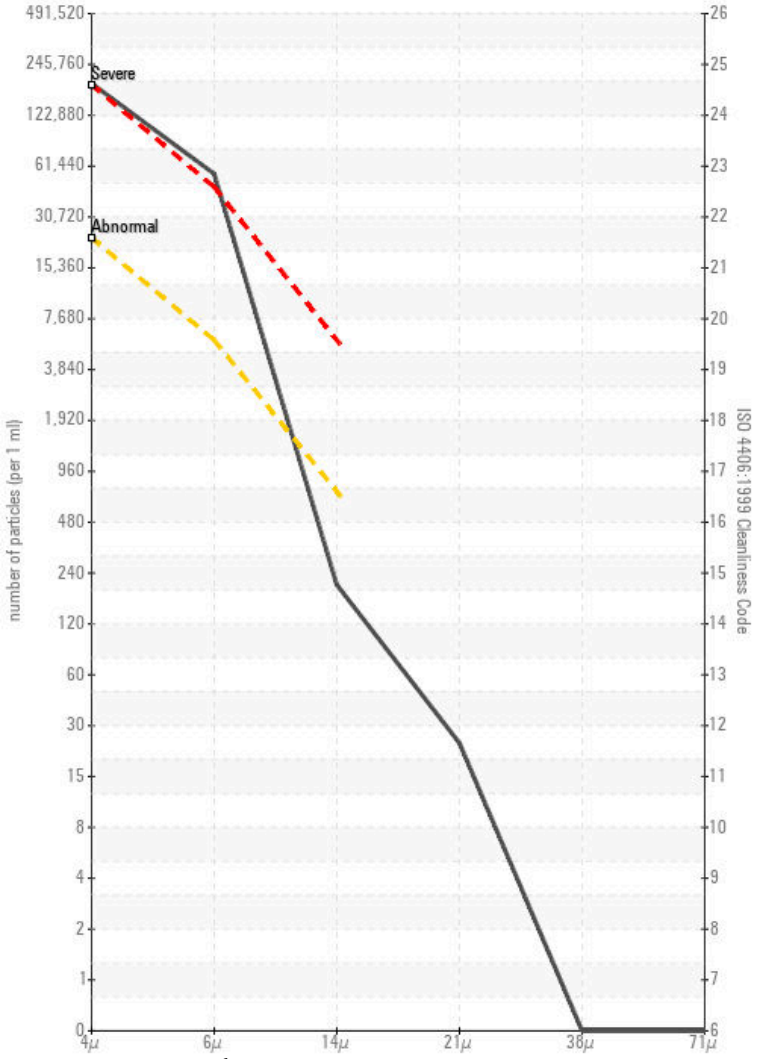
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

