

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 10132223777 - 3 MAIN ENGINE

Sample No: VPA057208

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057208	---	---	---
Sample Date	06 Apr 2024	---	---	---
Machine Hours	440	---	---	---
Oil Hours	440	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

WINDSERVE MARINE

10 MACNAUGHT ST
NORTH KINGSTOWN, RI
US 02852

Contact: Ryan Linn

RyanL@windservemarine.com

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	80	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	56	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 29	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 46	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	█ <1	---	---	---

ADDITIVES

Calcium	ppm	1686	---	---	---
Magnesium	ppm	377	---	---	---
Zinc	ppm	█ 1014	---	---	---
Phosphorus	ppm	█ 879	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	50	---	---	---

Depot: VPSENNOR

Unique No: 10981636

Signed: Jonathan Hester

Report Date: 19 Apr 2024

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GRAPHS

