

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BILL BENDA ONAN BILL BENDA (S/N NOT GIVEN) - GENSET

Sample No: VPA036179

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number	VPA036179	VPA044093	---	---
Sample Date	11 Oct 2023	17 Nov 2022	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

BAY MARINE

3 E MADISON ST

WAUKEGAN, IL

US 60085

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	█ 14.1	---	---
Base Number (BN)	mg KOH/g	█ 8.5	█ 10.1	---	---
Oxidation (PA)	%	68	73	---	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	56	62	---	---
Sulfation (PA)	%	57	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	█ 4	---	---
Sodium	ppm	█ 2	█ <1	---	---
Potassium	ppm	█ 4	█ 6	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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	█ 3	█ 5	---	---
Copper	ppm	█ 1	█ 2	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ <1	█ 1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 4	█ 18	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1910	█ 1928	---	---
Magnesium	ppm	60	█ 254	---	---
Zinc	ppm	█ 1033	█ 1186	---	---
Phosphorus	ppm	█ 861	█ 988	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 176	█ 130	---	---

Depot: VP1174336

Unique No: 10698227

Signed: Don Baldrige

Report Date: 18 Oct 2023

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GRAPHS

