

OIL ANALYSIS REPORT

VOLVO PENTA

BLUE BIRD 73729977 - STARBOARD DIESEL ENGINE

Sample No: VPA059859

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA059859	---	---	---
Sample Date	27 Nov 2023	---	---	---
Machine Hours	983	---	---	---
Oil Hours	131	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.9	---	---	---
Base Number (BN)	mg KOH/g	█ 7.7	---	---	---
Oxidation (PA)	%	84	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.8	---	---	---
Nitration (PA)	%	88	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 41	---	---	---
Copper	ppm	█ 62	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 13	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 37	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1963	---	---	---
Magnesium	ppm	█ 433	---	---	---
Zinc	ppm	█ 1456	---	---	---
Phosphorus	ppm	█ 1125	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 31	---	---	---

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Diagnosis

No corrective action is recommended at this time. 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 suitable for further service.

Depot: VP592286

Unique No: 10767883

Signed: Sean Felton

Report Date: 05 Dec 2023

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GRAPHS

