

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URCIUOLI MARIN YACHT CARE CUMMINS/ONAN G100134873 - GENSET

Sample No: VPA058277

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA058277	---	---	---
Sample Date	15 Dec 2023	---	---	---
Machine Hours	41	---	---	---
Oil Hours	41	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	---	---	---
Base Number (BN)	mg KOH/g	■ 9.0	---	---	---
Oxidation (PA)	%	28	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0	---	---	---
Nitration (PA)	%	33	---	---	---
Sulfation (PA)	%	37	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.0	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---

WEAR METALS

Iron	ppm	■ <1	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 70	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 2027	---	---	---
Magnesium	ppm	■ 180	---	---	---
Zinc	ppm	■ 926	---	---	---
Phosphorus	ppm	■ 773	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 12	---	---	---

Helmuts Marine Service

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SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

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. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP152741

Unique No: 10805111

Signed: Jonathan Hester

Report Date: 29 Dec 2023

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GRAPHS

