

OIL ANALYSIS REPORT

**VOLVO
PENTA**

JOE RUBIN 43099 CUMMINS/ONAN G200782095 - GENSET

Sample No: VPA045950

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045950	VPA032182	---	---
Sample Date	28 Jun 2023	01 Feb 2022	---	---
Machine Hours	373	148	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

COASTAL CAROLINA YACHT SALES

145 LOCKWOOD BLVD
CHARLESTON, SC
US 29403
Contact: STEVE VASAS
steve@ccyachtsales.com

T:
F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	▲ 10.9	---	---
Base Number (BN)	mg KOH/g	■ 8.5	■ 9.5	---	---
Oxidation (PA)	%	57	40	---	---

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	47	41	---	---
Sulfation (PA)	%	51	44	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.7	---	---
Silicon	ppm	■ 9	■ 12	---	---
Sodium	ppm	■ 2	■ 3	---	---
Potassium	ppm	■ 0	■ <1	---	---

WEAR METALS

Iron	ppm	■ 7	■ 6	---	---
Copper	ppm	■ 3	■ 4	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 3	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 71	105	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ <1	0	---	---
Silver	ppm	■ 0	<1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 1386	■ 2450	---	---
Magnesium	ppm	■ 746	■ 217	---	---
Zinc	ppm	■ 1177	■ 1126	---	---
Phosphorus	ppm	■ 952	■ 1034	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 4	■ 97	---	---

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

Depot: VP568144
Unique No: 10549117
Signed: Don Baldrige
Report Date: 11 Jul 2023

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GRAPHS

