

OIL ANALYSIS REPORT

VOLVO PENTA

DANIEL 13611 VOLVO PENTA A1121385 - CENTER GASOLINE ENGINE

Sample No: VPA046365

Oil Type: VOLVO 10W40 FULL SYNTHETIC

SAMPLE INFORMATION

Sample Number	VPA046365	VPA044761	---	---
Sample Date	13 Jul 2023	15 Nov 2022	---	---
Machine Hours	80	70	---	---
Oil Hours	10	26	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

CHICAGO YACHT WORKS

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	▲ 11.3	---	---
Base Number (BN)	mg KOH/g	■ 7.4	■ 8.6	---	---
Oxidation (PA)	%	9	11	---	---

CONTAMINATION

Soot %	%	■ 0	■ 0.1	---	---
Nitration (PA)	%	7	8	---	---
Sulfation (PA)	%	9	11	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 8.7	▲ 3.7	---	---
Silicon	ppm	■ 26	■ 55	---	---
Sodium	ppm	■ 4	■ 0	---	---
Potassium	ppm	■ 2	■ 5	---	---

WEAR METALS

Iron	ppm	■ 16	■ 21	---	---
Copper	ppm	■ 46	■ 84	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ 2	---	---
Molybdenum	ppm	37	39	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	5	9	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1852	2024	---	---
Magnesium	ppm	15	17	---	---
Zinc	ppm	815	782	---	---
Phosphorus	ppm	699	667	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	5	---	---

Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP1080862
Unique No: 10564494
Signed: Doug Bogart
Report Date: 23 Jul 2023

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GRAPHS

