

OIL ANALYSIS REPORT

VOLVO PENTA

ZACH MAY VOLVO PENTA A1104473 - STARBOARD GASOLINE ENGINE

Sample No: VPA044766

Oil Type: VOLVO PENTA 10W40 FULL SYN

SAMPLE INFORMATION

Sample Number	VPA044766	---	---	---
Sample Date	15 Nov 2022	---	---	---
Machine Hours	75	---	---	---
Oil Hours	25	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

CHICAGO YACHT WORKS

2550 S ASHLAND AVE

CHICAGO, IL

US 60608

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F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	---	---	---
Base Number (BN)	mg KOH/g	■ 8.1	---	---	---
Oxidation (PA)	%	■ 10	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 8	---	---	---
Sulfation (PA)	%	■ 10	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	▲ 2.9	---	---	---
Silicon	ppm	■ 27	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 58	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 39	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 7	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 1821	---	---	---
Magnesium	ppm	■ 11	---	---	---
Zinc	ppm	■ 800	---	---	---
Phosphorus	ppm	■ 682	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 2	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. 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: VP1080862

Unique No: 10228319

Signed: Jonathan Hester

Report Date: 23 Nov 2022

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GRAPHS

