

OIL ANALYSIS REPORT



TERRY JENSEN EVAN/502662 VOLVO PENTA 4012149801 - CENTER GASOLINE ENGINE

Sample No: VPA059637
Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number	VPA059637	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	2908	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

Endor Marine LLC - Coastal Marine - 152124
 4300 11th Ave. NW
 SEATTLE, WA
 US 98107
 Contact: WILLOW YANARELLA
 service@coastalmarineengine.com
 T: (206)784-3703
 F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	▲ 9.6	---	---	---
Base Number (BN)	mg KOH/g	■ 10.8	---	---	---
Oxidation (PA)	%	19	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	14	---	---	---
Sulfation (PA)	%	15	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 6.5	---	---	---
Silicon	ppm	▲ 99	---	---	---
Sodium	ppm	■ 44	---	---	---
Potassium	ppm	■ 4	---	---	---

Diagnosis

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

WEAR METALS

Iron	ppm	■ 57	---	---	---
Copper	ppm	■ 7	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	23	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	1373	---	---	---
Magnesium	ppm	624	---	---	---
Zinc	ppm	886	---	---	---
Phosphorus	ppm	669	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	101	---	---	---

Depot: VP794951
Unique No: 10995415
Signed: Jonathan Hester
Report Date: 30 Apr 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

