

# OIL ANALYSIS REPORT



## MOYSEY VOLVO PENTA 3940013573 - PORT IPS

**Sample No:** VPA058974  
**Oil Type:** GEAR OIL SAE 75W90

### SAMPLE INFORMATION

Sample Number	VPA058974	VPA041227	VPA033439	---
Sample Date	13 Dec 2023	22 Dec 2022	08 Jun 2022	---
Machine Hours	637	636	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	NORMAL	ATTENTION	---

**FULL KEEL MARINE SERVICES**  
 314 LEGION AVE  
 ANNAPOLIS, MD  
 US 21401  
 Contact: Service Manager  
 FULLKEELMARINESERIVES@GMAIL.COM  
 T: (410)507-3542  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	▲ 85.3	■ 114	■ 104	---
-------------	-----	--------	-------	-------	-----

### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	11	9	15	---
Sodium	ppm	■ 0	■ 5	■ 8	---
Potassium	ppm	■ 2	■ 0	■ 0	---

### WEAR METALS

PQ		■ 20	■ 20	■ 37	---
Iron	ppm	■ 84	■ 118	▲ 292	---
Copper	ppm	■ 9	■ 14	■ 33	---
Lead	ppm	<1	0	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	3	2	4	---
Chromium	ppm	■ <1	■ <1	■ 2	---
Molybdenum	ppm	■ <1	■ <1	■ <1	---
Nickel	ppm	■ 1	■ <1	■ 2	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	■ 2	■ 1	■ 3	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	■ 3	■ 7	■ 4	---
Magnesium	ppm	■ 2	<1	■ 2	---
Zinc	ppm	■ 2	■ 11	■ 19	---
Phosphorus	ppm	▲ 530	■ 1460	■ 1356	---
Barium	ppm	■ 8	■ 0	■ 0	---
Boron	ppm	▲ 90	■ 324	386	---

### Diagnosis

The oil change at the time of sampling has been noted. 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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** VP1298996  
**Unique No:** 10794855  
**Signed:** Jonathan Hester  
**Report Date:** 21 Dec 2023

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## GRAPHS

