

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ZF 20247342 - INBOARD - STARBOARD GEARBOX

Sample No: VPA042125

Oil Type: SHELL ATF

### SAMPLE INFORMATION

Sample Number	VPA042125	---	---	---
Sample Date	15 Sep 2023	---	---	---
Machine Hours	678	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

### OIL CONDITION

Visc @ 40°C	cSt	■ 24.9	---	---	---
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### CONTAMINATION

Silicon	ppm	▲ 27	---	---	---
Sodium	ppm	■ 21	---	---	---
Potassium	ppm	■ <1	---	---	---

### WEAR METALS

PQ		■ 33	---	---	---
Iron	ppm	■ 39	---	---	---
Copper	ppm	■ 14	---	---	---
Lead	ppm	■ 11	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	▲ 16	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	110	---	---	---
Magnesium	ppm	0	---	---	---
Zinc	ppm	0	---	---	---
Phosphorus	ppm	255	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	111	---	---	---

### SMART DIESEL SERVICE

102 NW 133RD AVE, UNIT 103  
PLANTATION, FL  
US 33325  
Contact: ANDRES GARMENDIA  
smartdieselservice@gmail.com  
T: (954)258-8100  
F:

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: VPSMAPLA  
Unique No: 10655548  
Signed: Jonathan Hester  
Report Date: 20 Sep 2023

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## GRAPHS

