

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## ZF 20321898 - INBOARD - STARBOARD GEARBOX

**Sample No:** VPA056267

**Oil Type:** DIESEL ENGINE OIL SAE 30

### SAMPLE INFORMATION

Sample Number	VPA056267	---	---	---
Sample Date	26 Sep 2023	---	---	---
Machine Hours	438	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**FDDA FT PIERCE - POWER CENTER**

FORT PIERCE, FL  
US

Contact: KYLE GRASER  
k.graser@kirbycorp.com

T:  
F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 83.3	---	---	---
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### CONTAMINATION

Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 1	---	---	---

### Diagnosis

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 condition of the oil is acceptable for the time in service.

### WEAR METALS

PQ		■ 14	---	---	---
Iron	ppm	■ 16	---	---	---
Copper	ppm	■ 58	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 110	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

### ADDITIVES

Calcium	ppm	■ 2425	---	---	---
Magnesium	ppm	■ 150	---	---	---
Zinc	ppm	■ 1225	---	---	---
Phosphorus	ppm	■ 1083	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 5	---	---	---

**Depot:** VP208659  
**Unique No:** 10669660  
**Signed:** Doug Bogart  
**Report Date:** 28 Sep 2023

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## GRAPHS

