

# OIL ANALYSIS REPORT

# VOLVO PENTA

## NADINE URUIOLI SF WHALE TOURS ZF 20241239 - INBOARD - PORT GEARBOX

Sample No: VPA054891

Oil Type: VOLVO SUPER TRANSMISSION OIL SAE 30

### SAMPLE INFORMATION

Sample Number	VPA054891	VPA050535	---	---
Sample Date	09 May 2024	25 May 2023	---	---
Machine Hours	8456	7688	---	---
Oil Hours	8456	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

### Helmut's Marine Service

619 Canal Street  
SAN RAFAEL, CA  
US 94901-3545  
Contact: NADINE URUIOLI  
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

### OIL CONDITION

Visc @ 40°C	cSt	■ 84.6	79.8	---	---
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### CONTAMINATION

Water	%	■ NEG	NEG	---	---
Silicon	ppm	■ 8	■ 7	---	---
Sodium	ppm	■ 3	■ 3	---	---
Potassium	ppm	■ 0	■ <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		■ 68	■ 55	---	---
Iron	ppm	■ 138	■ 149	---	---
Copper	ppm	■ 132	■ 137	---	---
Lead	ppm	■ 2	■ 2	---	---
Tin	ppm	■ 10	■ 12	---	---
Aluminum	ppm	■ 4	■ <1	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 48	■ 49	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ 0	■ <1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 2	■ 2	---	---
Vanadium	ppm	■ 0	■ 0	---	---

### ADDITIVES

Calcium	ppm	■ 3640	■ 3047	---	---
Magnesium	ppm	■ 40	■ 219	---	---
Zinc	ppm	■ 1263	■ 1198	---	---
Phosphorus	ppm	■ 1131	■ 1027	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 485	■ 406	---	---

Depot: VP152741

Unique No: 11034500

Signed: Angela Borella

Report Date: 21 May 2024

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## GRAPHS

