

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ZF HURTH 132520321800 - STARBOARD GEAR UNIT

Sample No: VPA044259

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA044259	---	---	---
Sample Date	22 Nov 2022	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 93.7	---	---	---
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CONTAMINATION

Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---

WEAR METALS

PQ		■ 0	---	---	---
Iron	ppm	■ 12	---	---	---
Copper	ppm	■ 11	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 95	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 2235	---	---	---
Magnesium	ppm	■ 22	---	---	---
Zinc	ppm	■ 966	---	---	---
Phosphorus	ppm	■ 951	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 11	---	---	---

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Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.

Depot: TOR101TOR
Unique No: 5489460
Signed: Kevin Marson
Report Date: 24 Nov 2022

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GRAPHS

