

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ZF 20269579 - INBOARD - STARBOARD GEARBOX

Sample No: VPA020171

Oil Type: SAE 30W

SAMPLE INFORMATION

Sample Number	VPA020171	---	---	---
Sample Date	14 Jul 2023	---	---	---
Machine Hours	1115	---	---	---
Oil Hours	25	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

CAROLINA MARINE DIESEL

PO BOX 24159
HILTON HEAD, SC
US 29925

Contact: KEVIN JACKSON
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OIL CONDITION

Visc @ 40°C	cSt	■ 78.8	---	---	---
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CONTAMINATION

Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 2	---	---	---

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 suitable for further service.

WEAR METALS

PQ		■ 12	---	---	---
Iron	ppm	■ 6	---	---	---
Copper	ppm	■ 18	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 78	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1011	---	---	---
Magnesium	ppm	■ 560	---	---	---
Zinc	ppm	■ 762	---	---	---
Phosphorus	ppm	■ 678	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 207	---	---	---

Depot: CARHILSC

Unique No: 10578704

Signed: Sean Felton

Report Date: 02 Aug 2023

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GRAPHS

