

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ZF 20288178 - INBOARD - PORT GEARBOX

Sample No: VPA020168

Oil Type: SAE 30W

SAMPLE INFORMATION

Sample Number	VPA020168	---	---	---
Sample Date	14 Jul 2023	---	---	---
Machine Hours	1115	---	---	---
Oil Hours	25	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

CAROLINA MARINE DIESEL

PO BOX 24159
HILTON HEAD, SC
US 29925

Contact: KEVIN JACKSON
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OIL CONDITION

Visc @ 40°C	cSt	■ 80.0	---	---	---
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CONTAMINATION

Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 1	---	---	---

WEAR METALS

PQ		■ 14	---	---	---
Iron	ppm	■ 4	---	---	---
Copper	ppm	■ 19	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	▲ 17	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 81	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1007	---	---	---
Magnesium	ppm	■ 560	---	---	---
Zinc	ppm	■ 756	---	---	---
Phosphorus	ppm	■ 685	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 207	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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: CARHILSC

Unique No: 10578703

Signed: Jonathan Hester

Report Date: 02 Aug 2023

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GRAPHS

