

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ZF 96-14780 - INBOARD - STARBOARD GEARBOX

Sample No: VPA051875

Oil Type: CONOCO Phillips T5X Heavy Duty 30W

SAMPLE INFORMATION

Sample Number	VPA051875	---	---	---
Sample Date	28 Aug 2023	---	---	---
Machine Hours	190	---	---	---
Oil Hours	190	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

North Harbor Diesel Inc

720 30Th Street
ANACORTES, WA
US 98221

Contact: ROBBIN MURDOCK
robbin@northharbordiesel.com

T: (360)299-1904

F:

OIL CONDITION

Visc @ 40°C	cSt	■ 86.9	---	---	---
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CONTAMINATION

Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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		■ 13	---	---	---
Iron	ppm	■ 16	---	---	---
Copper	ppm	■ 52	---	---	---
Lead	ppm	■ 73	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	< 1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 3383	---	---	---
Magnesium	ppm	■ 90	---	---	---
Zinc	ppm	■ 1130	---	---	---
Phosphorus	ppm	■ 1033	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 5	---	---	---

Depot: VP179089

Unique No: 10634465

Signed: Don Baldrige

Report Date: 08 Sep 2023

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GRAPHS

