

OIL ANALYSIS REPORT

**VOLVO
PENTA**

501461 ZF HURTH 51220186851 - INBOARD - CENTER GEARBOX

Sample No: VPA048615
Oil Type: CHEVRON ATF

SAMPLE INFORMATION

Sample Number	VPA048615	---	---	---
Sample Date	04 Aug 2023	---	---	---
Machine Hours	1240	---	---	---
Oil Hours	0	---	---	---
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	■ 31.6	---	---	---
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CONTAMINATION

Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ <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		■ 19	---	---	---
Iron	ppm	■ 3	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 104	---	---	---
Magnesium	ppm	■ 5	---	---	---
Zinc	ppm	■ 16	---	---	---
Phosphorus	ppm	■ 222	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 117	---	---	---

Depot: VP179089
Unique No: 10592773
Signed: Don Baldrige
Report Date: 11 Aug 2023

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GRAPHS

