

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ROBIN FRASER ZF ZF - INBOARD - CENTER GEARBOX

Sample No: VPA058479

Oil Type: CHEVRON AUTOMATIC TRANS FLUID MD-3

### SAMPLE INFORMATION

Sample Number	VPA058479	---	---	---
Sample Date	16 Apr 2024	---	---	---
Machine Hours	27	---	---	---
Oil Hours	27	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**North Harbor Diesel Inc**  
720 30Th Street  
ANACORTES, WA  
US 98221  
Contact: ED MCFARLIN  
ed@northharbordiesel.com  
T:  
F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 22.2	---	---	---
-------------	-----	--------	-----	-----	-----

### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 0	---	---	---

### 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		■ 32	---	---	---
Iron	ppm	■ 23	---	---	---
Copper	ppm	■ 15	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 3	---	---	---
Magnesium	ppm	■ 1	---	---	---
Zinc	ppm	■ 6	---	---	---
Phosphorus	ppm	■ 162	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 71	---	---	---

**Depot:** VP179089  
**Unique No:** 10994832  
**Signed:** Jonathan Hester  
**Report Date:** 26 Apr 2024

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

