

OIL ANALYSIS REPORT

VOLVO PENTA

JAMIE JAMIESON ZF 20336694 - INBOARD - CENTER GEARBOX

Sample No: VPA050996

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION

Sample Number	VPA050996	VPA037348	VPA039734	---
Sample Date	15 Oct 2023	05 Dec 2021	13 Oct 2021	---
Machine Hours	0	61	65	---
Oil Hours	0	0	65	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

BELLINGHAM YACHT SALES (OUILEETE BROS)

1801 ROEDER AVE, SUITE 174

BELLINGHAM, WA

US 98225

Contact: MATT CLARK

service@bellinghamyachts.com

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OIL CONDITION

Visc @ 40°C	cSt	■ 88.2	■ 84.0	■ 55.9	---
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CONTAMINATION

Water	%	NEG	▲ 0.457	NEG	---
Silicon	ppm	■ 9	■ 14	■ 10	---
Sodium	ppm	■ 0	■ 2	■ 5	---
Potassium	ppm	■ 2	■ 0	■ 0	---

WEAR METALS

PQ		■ 23	■ 23	■ 43	---
Iron	ppm	■ 23	■ 12	■ 38	---
Copper	ppm	■ 25	■ 22	■ 103	---
Lead	ppm	■ <1	■ 2	■ 8	---
Tin	ppm	■ 1	■ 2	■ 4	---
Aluminum	ppm	■ 1	■ 1	■ 4	---
Chromium	ppm	■ 0	<1	<1	---
Molybdenum	ppm	■ 50	43	17	---
Nickel	ppm	■ 0	0	0	---
Titanium	ppm	■ 0	0	0	---
Silver	ppm	■ 0	0	<1	---
Manganese	ppm	■ 0	<1	<1	---
Vanadium	ppm	■ 0	0	0	---

ADDITIVES

Calcium	ppm	■ 3793	3673	3345	---
Magnesium	ppm	■ 17	52	123	---
Zinc	ppm	■ 1206	1197	1370	---
Phosphorus	ppm	■ 1111	1089	1107	---
Barium	ppm	■ 0	0	0	---
Boron	ppm	■ 512	334	143	---

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.

Depot: VP255663

Unique No: 10788993

Signed: Don Baldrige

Report Date: 17 Dec 2023

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GRAPHS

