

OIL ANALYSIS REPORT

VOLVO PENTA

COLIN MADDEN PATRICK 502474-8750 ZF 20404326 - INBOARD - PORT GEARBOX

Sample No: VPA059044

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION

Sample Number	VPA059044	VPA045929	---	---
Sample Date	23 Oct 2023	26 Jun 2023	---	---
Machine Hours	1121	200	---	---
Oil Hours	0	38	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ATTENTION	ATTENTION	---	---

Endor Marine LLC - Coastal Marine - 152124
4300 11th Ave. NW
SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 40°C	cSt	■ 85.9	■ 88.4	---	---
-------------	-----	--------	--------	-----	-----

CONTAMINATION

Silicon	ppm	■ 13	■ 13	---	---
Sodium	ppm	■ 2	■ 4	---	---
Potassium	ppm	■ 9	■ 2	---	---

WEAR METALS

PQ		■ 106	■ 90	---	---
Iron	ppm	■ 101	■ 99	---	---
Copper	ppm	▲ 258	▲ 268	---	---
Lead	ppm	■ 3	■ 5	---	---
Tin	ppm	■ 3	■ 2	---	---
Aluminum	ppm	■ 5	■ 6	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 45	■ 46	---	---
Nickel	ppm	■ 2	■ 2	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ <1	■ 1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 3287	■ 3561	---	---
Magnesium	ppm	■ 16	■ 20	---	---
Zinc	ppm	■ 1085	■ 1152	---	---
Phosphorus	ppm	■ 993	■ 1037	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 463	■ 511	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP794951
Unique No: 10713912
Signed: Don Baldrige
Report Date: 30 Oct 2023

OIL ANALYSIS REPORT



GRAPHS

