

# OIL ANALYSIS REPORT

# VOLVO PENTA

**TIM CUCHNA 64348 VOLVO PENTA A953963 - CENTER DIESEL ENGINE**

**Sample No:** VPA044565

**Oil Type:** CHEVRON DELO 400 MULTIGRADE 15W40

## SAMPLE INFORMATION

Sample Number	VPA044565	VPA028688	VPA028685	---
Sample Date	16 Mar 2023	04 Apr 2022	06 May 2021	---
Machine Hours	73	53	33	---
Oil Hours	20	25	15	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

## OIL CONDITION

Visc @ 100°C	cSt	13.6	14.0	14.1	---
Base Number (BN)	mg KOH/g	10.4	10.0	---	---
Oxidation (PA)	%	56	63	53	---

## CONTAMINATION

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	45	52	58	---
Sulfation (PA)	%	54	63	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	4	---
Sodium	ppm	0	2	2	---
Potassium	ppm	2	1	3	---

## WEAR METALS

Iron	ppm	33	10	8	---
Copper	ppm	3	2	2	---
Lead	ppm	0	<1	1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	2	12	11	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	61	93	3	---
Nickel	ppm	0	2	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	<1	---

## ADDITIVES

Calcium	ppm	1093	1546	1267	---
Magnesium	ppm	818	739	698	---
Zinc	ppm	1172	968	781	---
Phosphorus	ppm	968	781	684	---
Barium	ppm	0	0	0	---
Boron	ppm	29	327	94	---

### Maritime Fabrications Inc

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### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** VP153319  
**Unique No:** 10390462  
**Signed:** Angela Borella  
**Report Date:** 28 Mar 2023

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## GRAPHS

