

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**NADINE URUIOLI PAYAM MIRRAHIDI VOLVO PENTA 512204056044 - STERNDRIVE - CENTER GEARBOX**

**Sample No:** VPA053161

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

## SAMPLE INFORMATION

Sample Number	VPA053161	---	---	---
Sample Date	20 Jun 2024	---	---	---
Machine Hours	55	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Helmut's Marine Service**  
619 Canal Street  
SAN RAFAEL, CA  
US 94901-3545  
Contact: NADINE URUIOLI  
SERVICE@HELMUTSMARINE.COM  
T: x:  
F: x:

## OIL CONDITION

Visc @ 40°C	cSt	■ 78.8	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 19	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 3	---	---	---

## 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		■ 29	---	---	---
Iron	ppm	■ 24	---	---	---
Copper	ppm	■ 20	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 41	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	■ 1744	---	---	---
Magnesium	ppm	■ 562	---	---	---
Zinc	ppm	■ 1236	---	---	---
Phosphorus	ppm	■ 1032	---	---	---
Barium	ppm	20	---	---	---
Boron	ppm	■ 67	---	---	---

**Depot:** VP152741  
**Unique No:** 11101981  
**Signed:** Don Baldrige  
**Report Date:** 01 Jul 2024

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## GRAPHS

