

# OIL ANALYSIS REPORT

# VOLVO PENTA

**TONY CHAR NATE P/6654 VOLVO PENTA D6-480-DG A1 168596 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA060764

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

## SAMPLE INFORMATION

Sample Number	VPA060764	---	---	---
Sample Date	26 Apr 2024	---	---	---
Machine Hours	275	---	---	---
Oil Hours	35	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**Northwest Diesel Power**  
1325 ROEDER AVE SUITE 103  
BELLINGHAM, WA  
US 98225  
Contact: BRANDON ROBERTSON  
parts@nwdieselpower.com  
T:  
F:

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	53	---	---	---

## 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 acceptable for the time in service.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	40	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ < 1	---	---	---
Potassium	ppm	█ 2	---	---	---

## WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

## ADDITIVES

Calcium	ppm	█ 1057	---	---	---
Magnesium	ppm	█ 879	---	---	---
Zinc	ppm	█ 1227	---	---	---
Phosphorus	ppm	█ 1110	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 6	---	---	---

**Depot:** VP759009  
**Unique No:** 11006207  
**Signed:** Don Baldrige  
**Report Date:** 03 May 2024

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## GRAPHS

