

# OIL ANALYSIS REPORT

# VOLVO PENTA

## THERAPY VOLVO PENTA A114490 - PORT DIESEL ENGINE

Sample No: VPA045486

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

### SAMPLE INFORMATION

Sample Number	VPA045486	---	---	---
Sample Date	13 Sep 2023	---	---	---
Machine Hours	159	---	---	---
Oil Hours	159	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 9.9	---	---	---
Oxidation (PA)	%	76	---	---	---

### CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 4	---	---	---

### WEAR METALS

Iron	ppm	█ 22	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 40	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1815	---	---	---
Magnesium	ppm	█ 504	---	---	---
Zinc	ppm	█ 1179	---	---	---
Phosphorus	ppm	█ 936	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 63	---	---	---

**Marine International Diesels Inc.**  
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DAVIE, FL  
US 33314  
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T:  
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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:** VP694356  
**Unique No:** 10649116  
**Signed:** Angela Borella  
**Report Date:** 20 Sep 2023

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## GRAPHS

