

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 71047578064755 - STARBOARD DIESEL ENGINE

Sample No: VPA021924

Oil Type: MOBIL DELVAC 1 5W40

### SAMPLE INFORMATION

Sample Number	VPA021924	---	---	---
Sample Date	18 Dec 2023	---	---	---
Machine Hours	1900	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

### ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2  
NAPLES, FL  
US 34104  
Contact: KEITH SPICER  
keith\_advanceddiesel@yahoo.com  
T: (239)580-8731  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 5.6	---	---	---
Oxidation (PA)	%	█ 181	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	█ 70	---	---	---
Sulfation (PA)	%	█ 107	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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.

### WEAR METALS

Iron	ppm	█ 21	---	---	---
Copper	ppm	▲ 36	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	█ 0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1011	---	---	---
Magnesium	ppm	█ 936	---	---	---
Zinc	ppm	█ 1301	---	---	---
Phosphorus	ppm	█ 1102	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 86	---	---	---

Depot: VPADVNAP  
Unique No: 10802521  
Signed: Jonathan Hester  
Report Date: 26 Dec 2023

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## GRAPHS

