

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GARRISON NORTON HUNTER 3242-200 VOLVO PENTA 70112003755 - PORT DIESEL ENGINE

Sample No: VPA050707  
Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA050707	VPA045243	VPA037338	---
Sample Date	12 Jul 2023	30 Aug 2022	20 Oct 2021	---
Machine Hours	266	198	98	---
Oil Hours	68	100	97	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

### GRAND BANKS

450 SW SALEM RD  
STUART, FL  
US 34994  
Contact: ROBERT ANTONA  
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T: (609)384-5290  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 12.9	▲ 11.2	---
Base Number (BN)	mg KOH/g	█ 10.4	█ 8.3	---	---
Oxidation (PA)	%	56	106	52	---

### CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.3	---
Nitration (PA)	%	44	48	45	---
Sulfation (PA)	%	52	65	48	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	█ 0.9	---
Silicon	ppm	█ 8	█ 9	█ 34	---
Sodium	ppm	█ <1	█ 1	█ 2	---
Potassium	ppm	█ 3	█ 1	█ 2	---

### WEAR METALS

Iron	ppm	█ 6	█ 4	█ 21	---
Copper	ppm	█ 3	█ 9	█ 27	---
Lead	ppm	█ <1	█ 4	█ 2	---
Tin	ppm	█ <1	█ <1	█ 2	---
Aluminum	ppm	█ <1	█ <1	█ 3	---
Chromium	ppm	█ <1	█ <1	█ 1	---
Molybdenum	ppm	█ 63	█ 51	█ 56	---
Nickel	ppm	█ <1	█ <1	█ <1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ <1	█ <1	█ <1	---
Manganese	ppm	█ <1	█ <1	█ 1	---
Vanadium	ppm	0	<1	<1	---

### ADDITIVES

Calcium	ppm	█ 1169	933	█ 1040	---
Magnesium	ppm	1051	█ 828	█ 918	---
Zinc	ppm	█ 1393	█ 1052	█ 1258	---
Phosphorus	ppm	█ 1180	█ 813	█ 1012	---
Barium	ppm	█ 0	█ <1	█ 0	---
Boron	ppm	█ 7	█ 4	█ 9	---

### 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: VP531377  
Unique No: 10560872  
Signed: Don Baldrige  
Report Date: 18 Jul 2023

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**VOLVO  
PENTA**

## GRAPHS

