

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 502800 VOLVO PENTA D4-260 2004004903 - STARBOARD DIESEL ENGINE

Sample No: VPA053220

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA053220	VPA018614	---	---
Sample Date	01 Apr 2024	21 Aug 2018	---	---
Machine Hours	0	746	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 14.28	---	---
Base Number (BN)	mg KOH/g	█ 10.5	---	---	---
Oxidation (PA)	%	76	█ 51	---	---

### 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	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	58	█ 54	---	---
Sulfation (PA)	%	58	█ 43	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 5	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 0	█ 5	---	---

### WEAR METALS

Iron	ppm	█ 7	█ 10	---	---
Copper	ppm	█ 7	█ 3	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 23	█ 54	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 51	█ 40	---	---
Nickel	ppm	█ <1	█ 1	---	---
Titanium	ppm	0	█ 19	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	<1	0	---	---

### ADDITIVES

Calcium	ppm	█ 1545	█ 1199	---	---
Magnesium	ppm	█ 745	█ 925	---	---
Zinc	ppm	█ 1133	█ 1042	---	---
Phosphorus	ppm	█ 943	█ 1007	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 40	█ 32	---	---

Depot: VP794951  
Unique No: 10956669  
Signed: Don Baldrige  
Report Date: 05 Apr 2024

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## GRAPHS

