

# OIL ANALYSIS REPORT

# VOLVO PENTA

## D'ANGELO BUD VOLVO PENTA A185387 - STARBOARD DIESEL ENGINE

Sample No: VPA036992

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA036992	VPA040833	VPA024140	---
Sample Date	25 Oct 2023	11 Nov 2021	11 Aug 2020	---
Machine Hours	604	550	500	---
Oil Hours	0	50	147	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

### Point Judith Marina

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 13.7	█ 14.8	---
Base Number (BN)	mg KOH/g	█ 9.9	---	---	---
Oxidation (PA)	%	58	60	68	---

### CONTAMINATION

Soot %	%	█ 0.3	█ 0.2	█ 0.3	---
Nitration (PA)	%	53	53	60	---
Sulfation (PA)	%	54	55	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 5	█ 5	█ 4	---
Sodium	ppm	█ 4	█ 4	█ 3	---
Potassium	ppm	█ 2	█ <1	█ 6	---

### 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.

### WEAR METALS

Iron	ppm	█ 14	█ 13	█ 17	---
Copper	ppm	█ 5	█ 3	█ 4	---
Lead	ppm	█ <1	█ 1	█ 1	---
Tin	ppm	█ <1	█ <1	█ <1	---
Aluminum	ppm	█ 5	█ 2	█ 0	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 63	█ 58	█ 8	---
Nickel	ppm	█ 1	█ <1	█ <1	---
Titanium	ppm	█ <1	█ 0	█ 0	---
Silver	ppm	█ 0	█ <1	█ <1	---
Manganese	ppm	█ 0	█ <1	█ <1	---
Vanadium	ppm	<1	0	0	---

### ADDITIVES

Calcium	ppm	█ 1072	█ 1108	█ 2044	---
Magnesium	ppm	1008	█ 981	100	---
Zinc	ppm	█ 1286	█ 1146	█ 1175	---
Phosphorus	ppm	█ 1066	█ 1109	█ 977	---
Barium	ppm	█ 1	█ 0	█ 0	---
Boron	ppm	█ 0	█ 4	█ 78	---

Depot: VP153811

Unique No: 10723696

Signed: Don Baldrige

Report Date: 02 Nov 2023

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## GRAPHS

