

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ALASKA LUXURY TOURS VOLVO PENTA A1204657 - STARBOARD DIESEL ENGINE

**Sample No:** VPA036464  
**Oil Type:** 15w40 CK-4

### SAMPLE INFORMATION

Sample Number	VPA036464	VPA036937	---	---
Sample Date	02 Jul 2024	29 May 2024	---	---
Machine Hours	445	199	---	---
Oil Hours	246	199	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**Sundance Mfg Inc**  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 9.5	█ 9.7	---	---
Oxidation (PA)	%	57	57	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.2	---	---
Nitration (PA)	%	53	48	---	---
Sulfation (PA)	%	52	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 22	---	---
Sodium	ppm	█ 3	█ 4	---	---
Potassium	ppm	█ <1	█ 3	---	---

### Diagnosis

No corrective action is recommended at this time. 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	█ 21	█ 29	---	---
Copper	ppm	█ 9	█ 16	---	---
Lead	ppm	█ 2	█ 3	---	---
Tin	ppm	█ <1	█ 4	---	---
Aluminum	ppm	█ 4	█ 10	---	---
Chromium	ppm	█ 2	█ 4	---	---
Molybdenum	ppm	█ 63	█ 65	---	---
Nickel	ppm	█ 2	█ 4	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1289	█ 1261	---	---
Magnesium	ppm	█ 1065	█ 944	---	---
Zinc	ppm	█ 1443	█ 1234	---	---
Phosphorus	ppm	█ 1208	█ 944	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 4	█ 10	---	---

**Depot:** VP154394  
**Unique No:** 11114465  
**Signed:** Sean Felton  
**Report Date:** 10 Jul 2024

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## GRAPHS

