

# OIL ANALYSIS REPORT

# VOLVO PENTA

## PLATYPUS MARINE SAM VOLVO PENTA A1089740 - PORT DIESEL ENGINE

Sample No: VPA055654  
Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA055654	---	---	---
Sample Date	29 Jun 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 10.6	---	---	---
Oxidation (PA)	%	78	---	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	▲ 26	---	---	---
Sodium	ppm	█ 9	---	---	---
Potassium	ppm	█ 8	---	---	---

### WEAR METALS

Iron	ppm	█ 32	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ 9	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 70	---	---	---
Chromium	ppm	█ 6	---	---	---
Molybdenum	ppm	█ 37	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	1755	---	---	---
Magnesium	ppm	█ 582	---	---	---
Zinc	ppm	█ 1174	---	---	---
Phosphorus	ppm	█ 985	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 75	---	---	---

Depot: VP794951  
Unique No: 10552921  
Signed: Angela Borella  
Report Date: 14 Jul 2023

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## GRAPHS

