

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA A1092488 - STARBOARD DIESEL ENGINE

Sample No: VPA045286

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA045286	---	---	---
Sample Date	29 Aug 2022	---	---	---
Machine Hours	458	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	70	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.6	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

### WEAR METALS

Iron	ppm	█ 27	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 7	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 6	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 2062	---	---	---
Magnesium	ppm	█ 90	---	---	---
Zinc	ppm	█ 1156	---	---	---
Phosphorus	ppm	█ 974	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 165	---	---	---

### SUNCOAST DIESEL MARINE

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US 34240  
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### 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: VP705283  
Unique No: 10115691  
Signed: Don Baldrige  
Report Date: 01 Sep 2022

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## GRAPHS

