

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## VALA RAD VOLVO PENTA 1012587092 - STARBOARD DIESEL ENGINE

Sample No: VPA016665

Oil Type: {unknown}

### SAMPLE INFORMATION

Sample Number	VPA016665	---	---	---
Sample Date	29 Jun 2018	---	---	---
Machine Hours	20	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### Cogswell Marine & Motorsports, Inc

865 Stella Street  
CHULA VISTA, CA  
US 91911

Contact: Pete Cogswell  
Cogsmotorsports@aol.com

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F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.58	---	---	---
Oxidation (PA)	%	█ 56	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	█ 42	---	---	---
Sulfation (PA)	%	█ 53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 7	---	---	---

### 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 15	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	2111	---	---	---
Magnesium	ppm	█ 97	---	---	---
Zinc	ppm	1077	---	---	---
Phosphorus	ppm	█ 797	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	202	---	---	---

Depot: VP152133

Unique No: 8252344

Signed: Don Baldrige

Report Date: 05 Jul 2018

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## GRAPHS

