

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JUDSON AIN - VANQUISH VOLVO PENTA 70112052671 - PORT DIESEL ENGINE

Sample No: VPA036889

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA036889	---	---	---
Sample Date	15 Dec 2023	---	---	---
Machine Hours	61	---	---	---
Oil Hours	61	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

Larry's Lighthouse Marina

1250

AQUEBOGUE, NY

US 11931

Contact: MAX FUHLBRUGGE

info@lighthousemarina.com

T: x:

F: x:

### OIL CONDITION

Visc @ 100°C	cSt	9.5	---	---	---
Base Number (BN)	mg KOH/g	6.6	---	---	---
Oxidation (PA)	%	59	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	10.9	---	---	---
Silicon	ppm	33	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	4	---	---	---

### Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

### WEAR METALS

Iron	ppm	8	---	---	---
Copper	ppm	13	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	71	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	1887	---	---	---
Magnesium	ppm	11	---	---	---
Zinc	ppm	1069	---	---	---
Phosphorus	ppm	906	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	56	---	---	---

Depot: VP610438

Unique No: 10843055

Signed: Don Baldrige

Report Date: 25 Jan 2024

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## GRAPHS

