

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ZIAD SKAFF 3671 VOLVO PENTA A395080 - PORT GASOLINE ENGINE

Sample No: VPA055391

Oil Type: VOLVO PENTA SYNTHETIC 10W40

### SAMPLE INFORMATION

Sample Number	VPA055391	---	---	---
Sample Date	31 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### WESTERN BRANCH DIESEL

6881 BULLDOG DR N

CHARLESTON, SC

US 29406

Contact: MICHAEL JORDAN

mdjordan@wbdiesel.com

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 6.5	---	---	---
Oxidation (PA)	%	█ 18	---	---	---

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 13	---	---	---
Sulfation (PA)	%	█ 13	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 38	---	---	---
Sodium	ppm	█ 170	---	---	---
Potassium	ppm	█ 14	---	---	---

### Diagnosis

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 level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	█ 36	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 7	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 23	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1282	---	---	---
Magnesium	ppm	█ 530	---	---	---
Zinc	ppm	█ 865	---	---	---
Phosphorus	ppm	█ 602	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	<1	---	---	---

Depot: VP1165983

Unique No: 10726073

Signed: Jonathan Hester

Report Date: 07 Nov 2023

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## GRAPHS

