

# OIL ANALYSIS REPORT

# VOLVO PENTA

## KUBOTA V3800 2KJ2635 - CENTER DIESEL ENGINE

Sample No: VPA039643

Oil Type: {unknown}

### SAMPLE INFORMATION

Sample Number	VPA039643	---	---	---
Sample Date	19 Mar 2024	---	---	---
Machine Hours	159	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

#### Rutt's Machine Inc.

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Elizabethtown, PA  
US 17022  
Contact: John Rutt  
ruttjohn@ruttsmachine.com  
T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	▲ 60.67	---	---	---
Base Number (BN)	mg KOH/g	■ 13.7	---	---	---
Oxidation (PA)	%	62	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	75	---	---	---
Sulfation (PA)	%	44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	■ 15	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 5	---	---	---

### Diagnosis

We recommend an early resample to monitor this condition. All component wear rates are normal. The wear metal levels do not reflect the reported failure. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

### WEAR METALS

Iron	ppm	■ 27	---	---	---
Copper	ppm	■ 9	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 34	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	■ 1580	---	---	---
Magnesium	ppm	■ 514	---	---	---
Zinc	ppm	■ 1230	---	---	---
Phosphorus	ppm	■ 1037	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 56	---	---	---

Depot: VP743218  
Unique No: 10940238  
Signed: Jonathan Hester  
Report Date: 29 Mar 2024

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## GRAPHS

