

# OIL ANALYSIS REPORT

# VOLVO PENTA

## DON KAFKA VOLVO PENTA 201321 - STARBOARD DIESEL ENGINE

Sample No: VPA045620

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA045620	---	---	---
Sample Date	25 Jan 2024	---	---	---
Machine Hours	194	---	---	---
Oil Hours	94	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

### FDDA TAMPA

TAMPA, FL  
US  
Contact: KYLE SUTLEY  
k.sutley@ssss.com  
T: (813)918-8518  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 7.5	---	---	---
Oxidation (PA)	%	█ 37	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	█ 50	---	---	---
Sulfation (PA)	%	█ 46	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	▲ 33	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 25	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 26	---	---	---
Copper	ppm	█ 54	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 11	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 6	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	█ 0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1109	---	---	---
Magnesium	ppm	█ 992	---	---	---
Zinc	ppm	█ 1242	---	---	---
Phosphorus	ppm	█ 953	---	---	---
Barium	ppm	█ 5	---	---	---
Boron	ppm	█ <1	---	---	---

Depot: VP208641  
Unique No: 10863242  
Signed: Don Baldrige  
Report Date: 07 Feb 2024

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## GRAPHS

