

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ONAN D160944949 - STARBOARD GENSET

Sample No: VPA056379

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA056379	---	---	---
Sample Date	17 Jan 2024	---	---	---
Machine Hours	1152	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL  
US

Contact: KYLE GRASER  
k.graser@kirbycorp.com

T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	---	---	---
Base Number (BN)	mg KOH/g	█ 8.7	---	---	---
Oxidation (PA)	%	55	---	---	---

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	44	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 3	---	---	---

### WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1192	---	---	---
Magnesium	ppm	█ 691	---	---	---
Zinc	ppm	█ 1162	---	---	---
Phosphorus	ppm	█ 910	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 45	---	---	---

Depot: VP208659

Unique No: 10844806

Signed: Sean Felton

Report Date: 25 Jan 2024

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

