

# OIL ANALYSIS REPORT

# VOLVO PENTA

## SWEET SPOT 20132021663 - STARBOARD DIESEL ENGINE

Sample No: VPA060906

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

### SAMPLE INFORMATION

Sample Number	VPA060906	---	---	---
Sample Date	03 May 2024	---	---	---
Machine Hours	798	---	---	---
Oil Hours	798	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### MMRS - MOBILE MARINE KEY WEST

5680 1ST AVE, UNIT 4

KEY WEST, FL

US 33040

Contact: Matt Graf

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F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	59	---	---	---

### 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 %	%	█ 1.1	---	---	---
Nitration (PA)	%	68	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 8	---	---	---

### WEAR METALS

Iron	ppm	█ 24	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 65	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1158	---	---	---
Magnesium	ppm	931	---	---	---
Zinc	ppm	█ 1212	---	---	---
Phosphorus	ppm	█ 1070	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 5	---	---	---

Depot: VP543258

Unique No: 11022895

Signed: Sean Felton

Report Date: 14 May 2024

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## GRAPHS

