

# OIL ANALYSIS REPORT

# VOLVO PENTA

## KUMAR GALHOTRA VOLVO PENTA 3940025647 - STARBOARD DIESEL ENGINE

Sample No: VPA058106

Oil Type: SHELL ROTELLA T4 15W40

### SAMPLE INFORMATION

Sample Number	VPA058106	VPA044499	---	---
Sample Date	31 Jan 2024	16 Nov 2022	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	█ 13.3	---	---
Base Number (BN)	mg KOH/g	█ 8.5	█ 8.5	---	---
Oxidation (PA)	%	60	67	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.3	---	---
Nitration (PA)	%	50	84	---	---
Sulfation (PA)	%	54	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	█ 20	---	---
Sodium	ppm	█ 1	█ 2	---	---
Potassium	ppm	█ 5	█ <1	---	---

### WEAR METALS

Iron	ppm	█ 11	█ 22	---	---
Copper	ppm	█ 3	█ 4	---	---
Lead	ppm	█ 2	█ 3	---	---
Tin	ppm	█ 1	█ 1	---	---
Aluminum	ppm	█ 1	█ 8	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	█ 9	█ 57	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	<1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1785	█ 1371	---	---
Magnesium	ppm	█ 207	█ 889	---	---
Zinc	ppm	█ 1118	█ 1254	---	---
Phosphorus	ppm	█ 989	█ 1027	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 163	█ 22	---	---

### BAY MARINE

3 E MADISON ST

WAUKEGAN, IL

US 60085

Contact: BRENDAN COWHEY

brendan@baymarine.net

T: (847)336-2628

F:

### 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.

Depot: VP1174336

Unique No: 10859442

Signed: Don Baldrige

Report Date: 04 Feb 2024

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## GRAPHS

