

OIL ANALYSIS REPORT

**VOLVO
PENTA**

MIKE KHALIDOU CUMMINS 74111465 - STARBOARD DIESEL ENGINE

Sample No: VPA036173

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036173	---	---	---
Sample Date	29 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

BAY MARINE

3 E MADISON ST

WAUKEGAN, IL

US 60085

Contact: BRENDAN COWHEY

brendan@baymarine.net

T: (847)336-2628

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	---	---	---
Base Number (BN)	mg KOH/g	█ 8.1	---	---	---
Oxidation (PA)	%	62	---	---	---

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	49	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 5	---	---	---

WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ < 1	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 13	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1822	---	---	---
Magnesium	ppm	█ 167	---	---	---
Zinc	ppm	█ 1107	---	---	---
Phosphorus	ppm	█ 1040	---	---	---
Barium	ppm	█ 3	---	---	---
Boron	ppm	█ 149	---	---	---

Depot: VP1174336

Unique No: 10715313

Signed: Don Baldrige

Report Date: 31 Oct 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

