

OIL ANALYSIS REPORT

**VOLVO
PENTA**

590-117 590-117 CUMMINS 22568383 - STARBOARD DIESEL ENGINE

Sample No: VPA056233

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA056233	---	---	---
Sample Date	02 Nov 2023	---	---	---
Machine Hours	21	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.46	---	---	---
Base Number (BN)	mg KOH/g	█ 10.0	---	---	---
Oxidation (PA)	%	53	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	35	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ 26	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 44	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	8	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2797	---	---	---
Magnesium	ppm	█ 161	---	---	---
Zinc	ppm	█ 998	---	---	---
Phosphorus	ppm	█ 949	---	---	---
Barium	ppm	█ 13	---	---	---
Boron	ppm	█ 352	---	---	---

Outstanding Marine

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Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

Depot: VP153685
Unique No: 10729241
Signed: Doug Bogart
Report Date: 07 Nov 2023

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GRAPHS

