

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A881710 - STARBOARD DIESEL ENGINE

Sample No: VPA058231

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA058231	---	---	---
Sample Date	15 Nov 2023	---	---	---
Machine Hours	329	---	---	---
Oil Hours	20	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

ALL SYSTEMS MARINE

700 MYRICK ST
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US 32505
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 10.0	---	---	---
Oxidation (PA)	%	56	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	46	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 2	---	---	---

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.

WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 54	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1006	---	---	---
Magnesium	ppm	█ 933	---	---	---
Zinc	ppm	█ 1246	---	---	---
Phosphorus	ppm	█ 1124	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 3	---	---	---

Depot: VP99220003
Unique No: 10756814
Signed: Doug Bogart
Report Date: 28 Nov 2023

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GRAPHS

