

OIL ANALYSIS REPORT

VOLVO PENTA

REINBOTH 520-242 VOLVO PENTA A1175315 - PORT DIESEL ENGINE

Sample No: VPA055982

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA055982	---	---	---
Sample Date	24 Oct 2023	---	---	---
Machine Hours	135	---	---	---
Oil Hours	135	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Outstanding Marine

PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
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T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	58	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.8	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 21	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

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.

WEAR METALS

Iron	ppm	█ 37	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 11	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 60	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1158	---	---	---
Magnesium	ppm	█ 830	---	---	---
Zinc	ppm	█ 1127	---	---	---
Phosphorus	ppm	█ 937	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 12	---	---	---

Depot: VP153685
Unique No: 10764036
Signed: Don Baldrige
Report Date: 01 Dec 2023

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GRAPHS

