

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 1012624648 - STARBOARD DIESEL ENGINE

Sample No: VPA046099

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA046099	---	---	---
Sample Date	05 Oct 2023	---	---	---
Machine Hours	130	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

Monmouth Marine Engines Inc
536 UNION LN
BRIELLE, NJ
US 08730-1421
Contact: Laura Clarkin
monmouthmarine@gmail.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 11.4	---	---	---
Oxidation (PA)	%	█ 64	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 61	---	---	---
Sulfation (PA)	%	█ 51	---	---	---
Glycol	%	▲ 0.06	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	▲ 80	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 1	---	---	---
Copper	ppm	█ 46	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	< 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1575	---	---	---
Magnesium	ppm	█ 475	---	---	---
Zinc	ppm	█ 1298	---	---	---
Phosphorus	ppm	█ 1041	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 35	---	---	---

Depot: VP153457
Unique No: 10683264
Signed: Doug Bogart
Report Date: 15 Oct 2023

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GRAPHS

