

OIL ANALYSIS REPORT

**VOLVO
PENTA**

MR KENNETH WINTER YANMAR M56095 - PORT DIESEL ENGINE

Sample No: VPA047517
Oil Type: CITGO CITGUARD 600 15W40

SAMPLE INFORMATION

Sample Number	VPA047517	---	---	---
Sample Date	10 Nov 2023	---	---	---
Machine Hours	4911	---	---	---
Oil Hours	165	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

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

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	---	---	---
Base Number (BN)	mg KOH/g	■ 8.6	---	---	---
Oxidation (PA)	%	63	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	59	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.2	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. 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	■ 3	---	---	---
Copper	ppm	■ 14	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 60	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1652	---	---	---
Magnesium	ppm	■ 356	---	---	---
Zinc	ppm	■ 1150	---	---	---
Phosphorus	ppm	■ 1004	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 4	---	---	---

Depot: VP153457
Unique No: 10750529
Signed: Sean Felton
Report Date: 21 Nov 2023

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GRAPHS

