

OIL ANALYSIS REPORT

**VOLVO
PENTA**

MARILEE MIDI VOLVO PENTA 2013388235 - PORT DIESEL ENGINE

Sample No: VPA049764

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA049764	VPA017431	---	---
Sample Date	08 Dec 2023	28 May 2018	---	---
Machine Hours	1842	513	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

Marine International Diesels Inc.

3600 HACIENDA BLVD UNIT G
DAVIE, FL
US 33314

Contact: service manager
service@midiflorida.com

T:
F:

OIL CONDITION

Visc @ 100°C	cSt	13.7	13.5	---	---
Base Number (BN)	mg KOH/g	8.9	---	---	---
Oxidation (PA)	%	67	44	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0	---	---
Nitration (PA)	%	57	42	---	---
Sulfation (PA)	%	54	42	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	0	10	---	---

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	8	2	---	---
Copper	ppm	1	1	---	---
Lead	ppm	0	1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	44	60	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1176	1077	---	---
Magnesium	ppm	783	1042	---	---
Zinc	ppm	896	1072	---	---
Phosphorus	ppm	685	942	---	---
Barium	ppm	0	0	---	---
Boron	ppm	35	3	---	---

Depot: VP694356

Unique No: 10806570

Signed: Angela Borella

Report Date: 28 Dec 2023

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

