

OIL ANALYSIS REPORT

VOLVO PENTA

MTU 512 100 123 - STARBOARD DIESEL ENGINE

Sample No: VPA044290

Oil Type: MOBIL HD 15W40

SAMPLE INFORMATION

Sample Number	VPA044290	---	---	---
Sample Date	31 Aug 2023	---	---	---
Machine Hours	301	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

SMART DIESEL SERVICE

102 NW 133RD AVE, UNIT 103
PLANTATION, FL
US 33325

Contact: ANDRES GARMENDIA
smartdieselservice@gmail.com

T: (954)258-8100

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 7.6	---	---	---
Oxidation (PA)	%	59	---	---	---

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	54	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
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. 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	█ 14	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 51	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1753	---	---	---
Magnesium	ppm	█ 262	---	---	---
Zinc	ppm	█ 1258	---	---	---
Phosphorus	ppm	█ 1009	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 359	---	---	---

Depot: VPSMAPLA

Unique No: 10631746

Signed: Doug Bogart

Report Date: 05 Sep 2023

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

