

OIL ANALYSIS REPORT

VOLVO PENTA

YAMAHA 6969124 - GASOLINE ENGINE

Sample No: VPA036386

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA036386	---	---	---
Sample Date	14 Nov 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 10.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	12	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	6	---	---	---
Sulfation (PA)	%	10	---	---	---
Glycol	%	█ 0.0	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 168	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	● 466	---	---	---
Copper	ppm	█ 68	---	---	---
Lead	ppm	▲ 100	---	---	---
Tin	ppm	█ 5	---	---	---
Aluminum	ppm	▲ 44	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	60	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	▲ 5	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	1999	---	---	---
Magnesium	ppm	28	---	---	---
Zinc	ppm	835	---	---	---
Phosphorus	ppm	659	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	166	---	---	---

FULL KEEL MARINE SERVICES
314 LEGION AVE
ANNAPOLIS, MD
US 21401
Contact: Service Manager
FULLKEELMARINESERIVES@GMAIL.COM
T: (410)507-3542
F:

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VP1298996
Unique No: 10742667
Signed: Jonathan Hester
Report Date: 30 Nov 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

