

OIL ANALYSIS REPORT

VOLVO PENTA

GOOD VOLVO PENTA 4012034654 - CENTER GASOLINE ENGINE

Sample No: VPA045858

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA045858	VPA055186	---	---
Sample Date	08 Sep 2023	20 Aug 2023	---	---
Machine Hours	0	226	---	---
Oil Hours	2	1	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

Outstanding Marine

PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
rlwb@verizon.net
T:
F:

OIL CONDITION

Visc @ 40°C	cSt	92.85	---	---	---
Visc @ 100°C	cSt	11.1	10.66	---	---
Viscosity Index (VI)	Scale	105	---	---	---
Base Number (BN)	mg KOH/g	1.2	6.7	---	---
Oxidation (PA)	%	3	9	---	---

CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	2	5	---	---
Sulfation (PA)	%	7	9	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	3	4	---	---
Sodium	ppm	41	338	---	---
Potassium	ppm	<1	2	---	---

Diagnosis

We advise a resample to confirm this situation. All component wear rates are normal. Appearance is not consistent with a used engine oil. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil.

WEAR METALS

Iron	ppm	5	60	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	0	9	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	247	1950	---	---
Magnesium	ppm	0	12	---	---
Zinc	ppm	471	955	---	---
Phosphorus	ppm	409	813	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	23	---	---

Depot: VP153685
Unique No: 10648339
Signed: Doug Bogart
Report Date: 26 Sep 2023

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GRAPHS

