

OIL ANALYSIS REPORT



585354 VOLVO PENTA 7008573322 - PORT DIESEL ENGINE

Sample No: VPA025251
Oil Type: VOLVO 90W

SAMPLE INFORMATION

Sample Number	VPA025251	VPA059837	---	---
Sample Date	08 Mar 2024	26 Feb 2024	---	---
Machine Hours	100	86	---	---
Oil Hours	20	86	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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 ANNA MARIA, FL
 US 34216
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 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	● 104	---	---	---
Visc @ 100°C	cSt	---	■ 13.2	---	---
Base Number (BN)	mg KOH/g	---	■ 8.6	---	---
Oxidation (PA)	%	---	59	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	---	■ 0.3	---	---
Nitration (PA)	%	---	52	---	---
Sulfation (PA)	%	---	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	■ 2	■ 21	---	---
Sodium	ppm	■ 2	■ 3	---	---
Potassium	ppm	■ 0	■ <1	---	---

WEAR METALS

Iron	ppm	■ 15	■ 14	---	---
Copper	ppm	■ 2	■ 36	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 0	■ 4	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 0	■ 111	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	■ 0	■ 0	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	1	■ <1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	● 14	■ 1611	---	---
Magnesium	ppm	■ 191	■ 537	---	---
Zinc	ppm	● 2	■ 899	---	---
Phosphorus	ppm	■ 1375	■ 774	---	---
Barium	ppm	■ 0	■ 1	---	---
Boron	ppm	■ 346	■ 274	---	---

Diagnosis

Sample submitted as an engine oil but appears to be gear oil. We advise an early resample to confirm this situation. All component wear rates are normal. Tests indicate that there is no appreciable water present in the oil. The water content is negligible. There is no indication of any contamination in the oil. Additive levels indicate the addition of gear oil.

Depot: VP648685
Unique No: 10924959
Signed: Doug Bogart
Report Date: 13 Mar 2024

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**VOLVO
PENTA**

GRAPHS

