

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 3950006557 - CENTER IPS

Sample No: VPA020713

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA020713	VPA020712	VPA022610	---
Sample Date	13 Nov 2023	25 Oct 2023	22 Aug 2023	---
Machine Hours	6476	6348	6000	---
Oil Hours	444	348	500	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

CHARLESTON NAVIGATION
6 CONCORD STREET
CHARLESTON, SC
US 29401
Contact: David Matash
dmatash@charlestonpilots.com
T: (843)296-8344
F: (843)577-0632

OIL CONDITION

Visc @ 40°C	cSt	█ 101	█ 102	█ 103	---
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CONTAMINATION

Water	%	▲ 0.289	NEG	NEG	---
Silicon	ppm	█ 1	2	<1	---
Sodium	ppm	█ 20	█ 15	█ 4	---
Potassium	ppm	█ 3	█ 3	█ 3	---

WEAR METALS

PQ		█ 21	█ 17	█ 19	---
Iron	ppm	█ 117	█ 83	█ 83	---
Copper	ppm	█ 13	10	3	---
Lead	ppm	0	0	0	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	2	1	3	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ <1	█ <1	█ 0	---
Nickel	ppm	█ 1	█ 1	█ <1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	█ 3	█ 2	█ 2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 5	█ 2	█ 4	---
Magnesium	ppm	█ 9	█ 6	█ 14	---
Zinc	ppm	█ 18	█ 0	█ 0	---
Phosphorus	ppm	█ 1277	█ 1402	█ 1374	---
Barium	ppm	█ <1	█ 0	█ 0	---
Boron	ppm	█ 311	█ 311	█ 356	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: VPCHACHA
Unique No: 10750291
Signed: Sean Felton
Report Date: 21 Nov 2023

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**VOLVO
PENTA**

GRAPHS

