

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 3950007643 - STARBOARD IPS

Sample No: VPA020812

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA020812	VPA020149	VPA020708	---
Sample Date	31 Jan 2024	13 Nov 2023	22 Aug 2023	---
Machine Hours	6465	6465	6000	---
Oil Hours	477	438	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

CHARLESTON NAVIGATION
6 CONCORD STREET
CHARLESTON, SC
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OIL CONDITION

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

Water	%	NEG	NEG	NEG	---
Silicon	ppm	█ 1	<1	█ 1	---
Sodium	ppm	█ 3	█ 0	█ <1	---
Potassium	ppm	█ 1	█ 2	█ 1	---

Diagnosis

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 condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 17	█ 16	█ 21	---
Iron	ppm	█ 43	█ 48	█ 95	---
Copper	ppm	█ 7	█ 8	█ 9	---
Lead	ppm	█ 0	█ 0	█ 0	---
Tin	ppm	█ 0	█ 0	█ 0	---
Aluminum	ppm	█ 3	█ 2	█ 5	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 0	█ 0	█ 0	---
Nickel	ppm	█ 0	█ <1	█ <1	---
Titanium	ppm	█ 0	█ <1	█ 0	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ <1	█ <1	█ <1	---
Vanadium	ppm	█ <1	█ 0	█ 0	---

ADDITIVES

Calcium	ppm	█ 0	█ 2	█ <1	---
Magnesium	ppm	█ 0	█ 2	█ 1	---
Zinc	ppm	█ 0	█ 0	█ 0	---
Phosphorus	ppm	█ 1411	█ 1265	█ 1343	---
Barium	ppm	█ 0	█ <1	█ 0	---
Boron	ppm	█ 367	█ 331	█ 355	---

Depot: VPCHACHA
Unique No: 10861426
Signed: Jonathan Hester
Report Date: 06 Feb 2024

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GRAPHS

