

OIL ANALYSIS REPORT

VOLVO PENTA

ENCORE I - PORT IPS

Sample No: VPA048581

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA048581	VPA048545	VPA039842	VPA040153
Sample Date	23 May 2024	17 Jun 2023	30 Mar 2023	07 Jul 2022
Machine Hours	6466	5717	0	4270
Oil Hours	500	470	400	340
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

BAY STATE CRUISE COMPANY
200 SEAPORT BLVD, SUITE 50 LOWER LEVEL
BOSTON, MA
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F:

OIL CONDITION

Visc @ 40°C	cSt	■ 104	■ 103	■ 105	■ 106
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CONTAMINATION

Water	%	NEG	■ 0.177	▲ 0.382	NEG
Silicon	ppm	■ 7	■ 12	■ 8	■ 14
Sodium	ppm	■ 4	■ 18	■ 59	■ 42
Potassium	ppm	■ 6	■ 1	■ 2	■ 3

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		■ 11	■ 21	■ 17	■ 19
Iron	ppm	■ 22	■ 74	■ 98	■ 85
Copper	ppm	■ 7	■ 8	■ 8	■ 11
Lead	ppm	■ 0	0	<1	<1
Tin	ppm	■ 0	0	0	0
Aluminum	ppm	■ 2	4	■ 15	■ 12
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 0	■ 0	■ 0	■ <1
Nickel	ppm	■ <1	■ 1	■ 3	■ 0
Titanium	ppm	■ <1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 2	■ <1	■ 2	■ 4
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 8	■ 2	■ 6	■ 4
Magnesium	ppm	■ 23	■ 3	11	■ 6
Zinc	ppm	■ 7	■ 45	■ 81	■ 107
Phosphorus	ppm	■ 1479	■ 1443	■ 1365	■ 1421
Barium	ppm	■ 0	■ 0	■ 0	■ 2
Boron	ppm	■ 390	■ 290	■ 271	■ 359

Depot: VPBAYBOS
Unique No: 11073211
Signed: Doug Bogart
Report Date: 12 Jun 2024

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GRAPHS

