

OIL ANALYSIS REPORT



ENCORE II (S/N 3940024412) - STARBOARD IPS

Sample No: VPA045981
Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA045981	VPA042025	VPA042023	VPA040148
Sample Date	17 Jun 2023	15 Jun 2023	28 Feb 2023	09 Mar 2022
Machine Hours	6229	1750	5384	4500
Oil Hours	400	0	400	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

BAY STATE CRUISE COMPANY
 200 SEAPORT BLVD, SUITE 50 LOWER LEVEL
 BOSTON, MA
 US 02210
 Contact: CHRISTINE HOOLEY
 christine@baystatecruisecompany.com
 T: (617)775-8418
 F:

OIL CONDITION

Visc @ 40°C	cSt	104	103	104	103
-------------	-----	------------	-----	-----	-----

CONTAMINATION

Water	%	0.170	NEG	NEG	0.530
Silicon	ppm	17	12	5	7
Sodium	ppm	5	2	6	5
Potassium	ppm	1	1	<1	0

WEAR METALS

PQ		13	15	14	15
Iron	ppm	32	19	29	25
Copper	ppm	7	6	2	4
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	1	0	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	1	1	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	<1	0	<1
Manganese	ppm	1	<1	<1	3
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	<1	0	0	0
Magnesium	ppm	2	1	4	<1
Zinc	ppm	19	3	4	3
Phosphorus	ppm	1201	1211	1383	1382
Barium	ppm	0	0	0	0
Boron	ppm	323	315	298	321

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VPBAYBOS
Unique No: 10885361
Signed: Sean Felton
Report Date: 20 Feb 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

