

OIL ANALYSIS REPORT



ENCORE II (S/N 3940024412) - STARBOARD IPS

Sample No: VPA048578
Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA048578	VPA045981	VPA042025	VPA042023
Sample Date	20 Dec 2023	17 Jun 2023	15 Jun 2023	28 Feb 2023
Machine Hours	6670	6229	1750	5384
Oil Hours	450	400	0	400
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

BAY STATE CRUISE COMPANY
 200 SEAPORT BLVD, SUITE 50 LOWER LEVEL
 BOSTON, MA
 US 02210
 Contact: CHRISTINE HOOLEY
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 F:

OIL CONDITION

Visc @ 40°C	cSt	105	104	103	104
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CONTAMINATION

Water	%	0.146	0.170	NEG	NEG
Silicon	ppm	16	17	12	5
Sodium	ppm	6	5	2	6
Potassium	ppm	2	1	1	<1

WEAR METALS

PQ		17	13	15	14
Iron	ppm	50	32	19	29
Copper	ppm	7	7	6	2
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	1	1	0
Chromium	ppm	1	<1	<1	0
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	1	1	1	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	1	1	<1	<1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	<1	<1	0	0
Magnesium	ppm	2	2	1	4
Zinc	ppm	20	19	3	4
Phosphorus	ppm	1178	1201	1211	1383
Barium	ppm	0	0	0	0
Boron	ppm	302	323	315	298

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: 10885359
Signed: Sean Felton
Report Date: 20 Feb 2024

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VOLVO PENTA

GRAPHS

