

OIL ANALYSIS REPORT



ENCORE V - PORT IPS

Sample No: VPA042624

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA042624	VPA048641	VPA045983	VPA042039
Sample Date	05 Feb 2024	05 Sep 2023	30 Jun 2023	27 Mar 2023
Machine Hours	5963	5516	0	1200
Oil Hours	400	400	420	350
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	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	105	103	104
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CONTAMINATION

Water	%	NEG	NEG	0.169	NEG
Silicon	ppm	13	21	10	16
Sodium	ppm	14	16	4	29
Potassium	ppm	1	2	<1	2

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		22	15	18	17
Iron	ppm	121	238	42	99
Copper	ppm	9	12	7	8
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	5	6	2	6
Chromium	ppm	<1	2	<1	2
Molybdenum	ppm	<1	1	0	1
Nickel	ppm	2	4	<1	3
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	1	3	0	3
Vanadium	ppm	<1	<1	0	<1

ADDITIVES

Calcium	ppm	0	1	1	2
Magnesium	ppm	2	3	1	5
Zinc	ppm	56	31	8	63
Phosphorus	ppm	1406	1161	1402	1244
Barium	ppm	0	0	0	0
Boron	ppm	358	284	307	309

Depot: VPBAYBOS
Unique No: 11073214
Signed: Doug Bogart
Report Date: 12 Jun 2024

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VOLVO PENTA

GRAPHS

