

OIL ANALYSIS REPORT



ENCORE III (S/N 3940025045) - PORT IPS

Sample No: VPA045982

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA045982	VPA040151	VPA038480	VPA025105
Sample Date	14 Jun 2023	18 Jul 2022	11 Jan 2022	03 Jun 2021
Machine Hours	773	5140	4686	4142
Oil Hours	400	500	500	400
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	ABNORMAL	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	108	104
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CONTAMINATION

Water	%	0.282	0.376	0.567	NEG
Silicon	ppm	22	24	11	10
Sodium	ppm	51	45	32	10
Potassium	ppm	3	2	1	<1

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		24	16	23	25
Iron	ppm	331	421	82	47
Copper	ppm	19	15	9	7
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	14	47	6	2
Chromium	ppm	3	3	1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	4	0	2	1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	6	6	2	1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	6	6	0	2
Magnesium	ppm	7	7	4	2
Zinc	ppm	38	93	78	96
Phosphorus	ppm	1220	1389	1392	1291
Barium	ppm	0	2	0	0
Boron	ppm	281	359	301	358

Depot: VPBAYBOS
Unique No: 10885356
Signed: Sean Felton
Report Date: 20 Feb 2024

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VOLVO PENTA

GRAPHS

