

OIL ANALYSIS REPORT



ENCORE III (S/N 3940025045) - PORT IPS

Sample No: VPA045984

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA045984	VPA045982	VPA040151	VPA038480
Sample Date	21 Jun 2023	14 Jun 2023	18 Jul 2022	11 Jan 2022
Machine Hours	430	773	5140	4686
Oil Hours	430	400	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	SEVERE	ABNORMAL

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

OIL CONDITION

Visc @ 40°C	cSt	101	105	104	108
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CONTAMINATION

Water	%	0.161	0.282	0.376	0.567
Silicon	ppm	9	22	24	11
Sodium	ppm	0	51	45	32
Potassium	ppm	<1	3	2	1

WEAR METALS

PQ		12	24	16	23
Iron	ppm	28	331	421	82
Copper	ppm	6	19	15	9
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	14	47	6
Chromium	ppm	<1	3	3	1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	4	0	2
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	<1	0	<1
Manganese	ppm	1	6	6	2
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	2	6	6	0
Magnesium	ppm	1	7	7	4
Zinc	ppm	12	38	93	78
Phosphorus	ppm	1354	1220	1389	1392
Barium	ppm	0	0	2	0
Boron	ppm	310	281	359	301

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: 10885365
Signed: Sean Felton
Report Date: 20 Feb 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

