

OIL ANALYSIS REPORT



ENCORE III - STARBOARD IPS

Sample No: VPA048579

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA048579	VPA045985	VPA040152	VPA035192
Sample Date	15 May 2024	21 Jun 2023	18 Jul 2022	07 Apr 2022
Machine Hours	0	430	5140	4860
Oil Hours	500	430	500	200
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

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	103	99.0	107	109
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CONTAMINATION

Water	%	NEG	0.164	NEG	NEG
Silicon	ppm	16	14	20	10
Sodium	ppm	22	12	30	12
Potassium	ppm	2	1	2	0

WEAR METALS

PQ		32	22	18	21
Iron	ppm	338	174	311	101
Copper	ppm	17	11	14	5
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	9	2	22	8
Chromium	ppm	3	2	3	1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	3	1	0	2
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	5	4	4	1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	0	4	4	3
Magnesium	ppm	5	3	5	2
Zinc	ppm	37	46	73	36
Phosphorus	ppm	1364	1372	1389	1314
Barium	ppm	0	0	2	0
Boron	ppm	343	294	363	308

Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. 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: 11073212
Signed: Doug Bogart
Report Date: 12 Jun 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

