

OIL ANALYSIS REPORT



ENCORE II (S/N 3940024412) - PORT IPS

Sample No: VPA042050
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA042050	VPA042026	VPA040149	VPA038483
Sample Date	15 Jun 2023	28 Feb 2023	09 Mar 2022	15 Sep 2021
Machine Hours	1750	5381	4504	4104
Oil Hours	450	400	600	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

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

Visc @ 40°C	cSt	103	105	104	107
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CONTAMINATION

Water	%	NEG	0.907	NEG	0.752
Silicon	ppm	16	11	8	12
Sodium	ppm	6	86	6	15
Potassium	ppm	1	4	0	<1

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		14	14	20	20
Iron	ppm	61	70	48	183
Copper	ppm	7	4	6	13
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	3	2	8
Chromium	ppm	1	<1	1	2
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	2	<1	1	2
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	2	3	3	4
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	<1	5	0	0
Magnesium	ppm	2	16	0	<1
Zinc	ppm	53	62	5	83
Phosphorus	ppm	1308	1399	1410	1326
Barium	ppm	0	0	0	0
Boron	ppm	297	277	325	279

Depot: VPBAYBOS
Unique No: 10885364
Signed: Sean Felton
Report Date: 20 Feb 2024

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VOLVO PENTA

GRAPHS

