

OIL ANALYSIS REPORT



ENCORE II (S/N 3940024412) - PORT IPS

Sample No: VPA045986
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA045986	VPA042050	VPA042026	VPA040149
Sample Date	17 Jun 2023	15 Jun 2023	28 Feb 2023	09 Mar 2022
Machine Hours	6229	1750	5381	4504
Oil Hours	0	450	400	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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	105	103	105	104
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CONTAMINATION

Water	%	NEG	NEG	0.907	NEG
Silicon	ppm	10	16	11	8
Sodium	ppm	0	6	86	6
Potassium	ppm	<1	1	4	0

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		16	14	14	20
Iron	ppm	21	61	70	48
Copper	ppm	4	7	4	6
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	1	3	2
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	2	<1	1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	2	3	3
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	<1	<1	5	0
Magnesium	ppm	<1	2	16	0
Zinc	ppm	6	53	62	5
Phosphorus	ppm	1398	1308	1399	1410
Barium	ppm	0	0	0	0
Boron	ppm	318	297	277	325

Depot: VPBAYBOS
Unique No: 10885370
Signed: Sean Felton
Report Date: 20 Feb 2024

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GRAPHS

