

OIL ANALYSIS REPORT

VOLVO PENTA

DENNIS GROUL MERCURY OM971768 - ZUES LOWER - STARBOARD GEARBOX

Sample No: VPA056017
Oil Type: MERCURY SAE 90

SAMPLE INFORMATION

Sample Number	VPA056017	VPA037679	VPA031273	---
Sample Date	02 Oct 2023	14 Jan 2022	26 May 2021	---
Machine Hours	904	861	762	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	N/A	---
Sample Status	ABNORMAL	SEVERE	ABNORMAL	---

COASTAL CAROLINA YACHT SALES
 145 LOCKWOOD BLVD
 CHARLESTON, SC
 US 29403
 Contact: STEVE VASAS
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 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	█ 153.4	█ 155	█ 166	---
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CONTAMINATION

Water	%	▲ 0.310	● 1.00	▲ 0.317	---
Silicon	ppm	█ 3	█ 7	█ 2	---
Sodium	ppm	█ 24	█ 43	█ 45	---
Potassium	ppm	█ 2	█ 3	█ 3	---

Diagnosis

We advise that you check for the source of water entry. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 27	█ 51	█ 57	---
Iron	ppm	█ 129	▲ 309	█ 138	---
Copper	ppm	█ 12	█ 20	█ 6	---
Lead	ppm	█ <1	█ 1	█ 1	---
Tin	ppm	█ <1	█ <1	█ <1	---
Aluminum	ppm	█ 2	█ 4	█ 1	---
Chromium	ppm	█ 1	█ 3	█ 2	---
Molybdenum	ppm	48	54	80	---
Nickel	ppm	█ 2	2	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	2	3	█ 2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	129	326	█ 323	---
Magnesium	ppm	4	8	█ 9	---
Zinc	ppm	28	54	█ 16	---
Phosphorus	ppm	269	363	█ 370	---
Barium	ppm	0	0	█ 0	---
Boron	ppm	2	17	█ 11	---

Depot: VP568144
Unique No: 10675990
Signed: Doug Bogart
Report Date: 04 Oct 2023

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GRAPHS

