

OIL ANALYSIS REPORT

**VOLVO
PENTA**

DENNIS GRAUL MERCURY OM971593 - ZUES LOWER - PORT GEARBOX

Sample No: VPA047493
Oil Type: MERCURY SAE 90

SAMPLE INFORMATION

Sample Number	VPA047493	VPA037683	VPA031280	---
Sample Date	02 Oct 2023	14 Jan 2022	26 May 2021	---
Machine Hours	904	855	757	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	N/A	---
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	---

COASTAL CAROLINA YACHT SALES
145 LOCKWOOD BLVD
CHARLESTON, SC
US 29403
Contact: STEVE VASAS
steve@ccyachtsales.com
T:
F:

OIL CONDITION

Visc @ 40°C	cSt	154.7	154	171	---
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CONTAMINATION

Water	%	0.500	---	0.235	---
Silicon	ppm	3	4	6	---
Sodium	ppm	29	30	70	---
Potassium	ppm	3	1	4	---

WEAR METALS

PQ		33	26	53	---
Iron	ppm	244	320	197	---
Copper	ppm	14	14	9	---
Lead	ppm	1	2	2	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	4	1	---
Chromium	ppm	2	3	3	---
Molybdenum	ppm	72	42	102	---
Nickel	ppm	2	2	1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	<1	<1	1	---
Manganese	ppm	3	3	3	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	153	121	432	---
Magnesium	ppm	6	5	15	---
Zinc	ppm	43	26	25	---
Phosphorus	ppm	354	334	390	---
Barium	ppm	0	0	0	---
Boron	ppm	4	15	14	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor. Gear wear is indicated. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP568144
Unique No: 10675989
Signed: Doug Bogart
Report Date: 04 Oct 2023

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GRAPHS

