

OIL ANALYSIS REPORT

VOLVO PENTA

DAVID KIRK MERCURY OM975166 - ZEUS - STARBOARD GEARBOX

Sample No: VPA055332

Oil Type: MERCURY 90W

SAMPLE INFORMATION

Sample Number	VPA055332	VPA044091	---	---
Sample Date	19 Dec 2023	21 Nov 2022	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---

BAY MARINE

3 E MADISON ST

WAUKEGAN, IL

US 60085

Contact: BRENDAN COWHEY

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F:

OIL CONDITION

Visc @ 40°C	cSt	█ 191	258	---	---
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CONTAMINATION

Water	%	█ 1.84	█ 18.5	---	---
Silicon	ppm	█ 2	█ 3	---	---
Sodium	ppm	█ 0	█ 4	---	---
Potassium	ppm	█ 2	█ 0	---	---

WEAR METALS

PQ		█ 58	█ 37	---	---
Iron	ppm	▲ 353	▲ 226	---	---
Copper	ppm	█ 18	█ 16	---	---
Lead	ppm	█ 3	█ 2	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 1	█ <1	---	---
Chromium	ppm	█ 3	█ 2	---	---
Molybdenum	ppm	55	30	---	---
Nickel	ppm	█ 2	█ 7	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	4	2	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	149	153	---	---
Magnesium	ppm	0	3	---	---
Zinc	ppm	42	49	---	---
Phosphorus	ppm	374	316	---	---
Barium	ppm	0	0	---	---
Boron	ppm	8	15	---	---

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. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP1174336

Unique No: 10796029

Signed: Jonathan Hester

Report Date: 22 Dec 2023

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GRAPHS

