

OIL ANALYSIS REPORT

VOLVO PENTA

JOE ZATTAR MERCURY OM958981 - ZEUS - STARBOARD GEARBOX

Sample No: VPA048455

Oil Type: MERCURY HIGH PERFORMANCE GEAR LUBE 90W

SAMPLE INFORMATION

Sample Number	VPA048455	---	---	---
Sample Date	27 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 168	---	---	---
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CONTAMINATION

Water	%	● 1.36	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

PQ		■ 16	---	---	---
Iron	ppm	● 381	---	---	---
Copper	ppm	■ 20	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	106	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	19	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	16	---	---	---
Phosphorus	ppm	403	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	1	---	---	---

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6801 E. Harbor Rd., 6801 East Harbor Rd.
MARBLEHEAD, OH
US 43440
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T:
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Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. 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: VP494046
Unique No: 10724361
Signed: Jonathan Hester
Report Date: 06 Nov 2023

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GRAPHS

