

OIL ANALYSIS REPORT

VOLVO PENTA

DAVID SMITH SMITH VOLVO PENTA A219426 - CENTER DIESEL ENGINE

Sample No: VPA036792

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA036792	---	---	---
Sample Date	25 Sep 2023	---	---	---
Machine Hours	510	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

Harry's Marine Service LLC

1141 N. Citrus St.

Orange, CA

US 92887

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 15.13	---	---	---
Oxidation (PA)	%	█ 65	---	---	---

CONTAMINATION

Water	%	● 1.08	---	---	---
Soot %	%	█ 1.3	---	---	---
Nitration (PA)	%	█ 99	---	---	---
Sulfation (PA)	%	█ 49	---	---	---
Glycol	%	█ 0.0	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	▲ 1444	---	---	---
Potassium	ppm	▲ 70	---	---	---

WEAR METALS

Iron	ppm	▲ 138	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 83	---	---	---
Chromium	ppm	▲ 6	---	---	---
Molybdenum	ppm	█ 61	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1334	---	---	---
Magnesium	ppm	█ 1154	---	---	---
Zinc	ppm	█ 1350	---	---	---
Phosphorus	ppm	█ 1148	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 13	---	---	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. There is a high concentration of water present in the oil. The high sodium (Na) level indicates the possible presence of salt water. Test for glycol is negative. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP867279

Unique No: 10662785

Signed: Doug Bogart

Report Date: 26 Sep 2023

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GRAPHS

