

OIL ANALYSIS REPORT

**VOLVO
PENTA**

HUSCHITT ZF HUSCHITT (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA058143

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA058143	---	---	---
Sample Date	19 Dec 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 5.9	---	---	---
Oxidation (PA)	%	171	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	102	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 24	---	---	---
Copper	ppm	▲ 50	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1013	---	---	---
Magnesium	ppm	█ 846	---	---	---
Zinc	ppm	█ 1280	---	---	---
Phosphorus	ppm	█ 1055	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 87	---	---	---

BAY MARINE

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VP1174336

Unique No: 10795637

Signed: Jonathan Hester

Report Date: 22 Dec 2023

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GRAPHS

