

OIL ANALYSIS REPORT

**VOLVO
PENTA**

3194005830 - STARBOARD IPS

Sample No: VPA031376

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA031376	---	---	---
Sample Date	04 Jun 2024	---	---	---
Machine Hours	935	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	106	---	---	---
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CONTAMINATION

Water	%	▲ 0.402	---	---	---
Silicon	ppm	▲ 199	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ <1	---	---	---

WEAR METALS

PQ		■ 0	---	---	---
Iron	ppm	■ 215	---	---	---
Copper	ppm	■ 12	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminium	ppm	■ 8	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	6	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	25	---	---	---
Phosphorus	ppm	1336	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	250	---	---	---

GBCS - GEORGIAN BAY SERVICES

171-8 ROBERT ST EAST
PENETANGUISHENE, ON
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F:

Diagnosis

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. 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. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material, dirt and/or grease. The oil is no longer serviceable due to the presence of contaminants.

Depot: GBCPEN

Unique No: 5789773

Signed: Kevin Marson

Report Date: 10 Jun 2024

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GRAPHS

