

OIL ANALYSIS REPORT

VOLVO PENTA

NOT GIVEN VPA050915 - ZEUS - STARBOARD GEARBOX

Sample No: VPA050915
Oil Type: GEAR OIL SAE 90

SAMPLE INFORMATION

Sample Number	VPA050915	---	---	---
Sample Date	31 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	█ 164.7	---	---	---
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CONTAMINATION

Water	%	▲ 0.198	---	---	---
Silicon	ppm	● 256	---	---	---
Sodium	ppm	█ 24	---	---	---
Potassium	ppm	█ 10	---	---	---

WEAR METALS

PQ		▲ 190	---	---	---
Iron	ppm	● 478	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 10	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 5	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 41	---	---	---
Magnesium	ppm	█ 7	---	---	---
Zinc	ppm	█ 38	---	---	---
Phosphorus	ppm	█ 237	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

ADVANCED DIESEL

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Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants and wear.

Depot: VPADVNP
Unique No: 10860853
Signed: Doug Bogart
Report Date: 02 Feb 2024

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GRAPHS

