

OIL ANALYSIS REPORT

**VOLVO
PENTA**

MIKE R. 3940016900 - STARBOARD IPS

Sample No: VPA036330

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA036330	---	---	---
Sample Date	07 Nov 2023	---	---	---
Machine Hours	814	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 103	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	13	---	---	---
Sodium	ppm	■ 25	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

PQ		■ 41	---	---	---
Iron	ppm	▲ 298	---	---	---
Copper	ppm	▲ 18	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 6	---	---	---
Magnesium	ppm	■ 9	---	---	---
Zinc	ppm	■ 6	---	---	---
Phosphorus	ppm	■ 1332	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 289	---	---	---

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Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Iron ppm levels are abnormal. Copper ppm levels are marginal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VPGREBRI

Unique No: 10764266

Signed: Angela Borella

Report Date: 01 Dec 2023

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GRAPHS

