

OIL ANALYSIS REPORT

**VOLVO
PENTA**

AUTO WORLD 354004 ZF 20133357 - INBOARD - STARBOARD GEARBOX

Sample No: VPA055554

Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

Sample Number	VPA055554	---	---	---
Sample Date	30 Jan 2024	---	---	---
Machine Hours	776	---	---	---
Oil Hours	64	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Skipper Marine of Ohio, LLC

6801 E. Harbor Rd.

MARBLEHEAD, OH

US 43440

Contact: Glenn Pollock

glenn@skipperbuds.com

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F:

OIL CONDITION

Visc @ 40°C	cSt	■ 95.1	---	---	---
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CONTAMINATION

Water	%	■ NEG	---	---	---
Silicon	ppm	■ 11	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 1	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		■ 17	---	---	---
Iron	ppm	■ 27	---	---	---
Copper	ppm	■ 20	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 41	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 1480	---	---	---
Magnesium	ppm	■ 640	---	---	---
Zinc	ppm	■ 1066	---	---	---
Phosphorus	ppm	■ 891	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 31	---	---	---

Depot: VP494046

Unique No: 10860674

Signed: Don Baldrige

Report Date: 05 Feb 2024

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GRAPHS

