

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**SCOTT WINKELMAN 42146 20091625 - STERNDRIVE - STARBOARD GEARBOX**

**Sample No:** VPA044538

**Oil Type:** SAE 30W

## SAMPLE INFORMATION

Sample Number	VPA044538	---	---	---
Sample Date	06 Jul 2023	---	---	---
Machine Hours	3094	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

## INTERSTATE POWER SYSTEMS

2901 E 78TH ST  
MINNEAPOLIS, MN  
US 55425  
Contact: BRADY GARBRECHT  
brady.garbrecht@istate.com  
T:  
F:

## OIL CONDITION

Visc @ 40°C	cSt	■ 88.7	---	---	---
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## CONTAMINATION

Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ 0	---	---	---

## 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		■ 23	---	---	---
Iron	ppm	■ 45	---	---	---
Copper	ppm	■ 27	---	---	---
Lead	ppm	■ 5	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 68	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	■ 1626	---	---	---
Magnesium	ppm	■ 344	---	---	---
Zinc	ppm	■ 855	---	---	---
Phosphorus	ppm	■ 747	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 60	---	---	---

**Depot:** VP1103105  
**Unique No:** 10551132  
**Signed:** Sean Felton  
**Report Date:** 12 Jul 2023

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## GRAPHS

