

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## A334453 - STARBOARD DIESEL ENGINE

**Sample No:** VPA021065

**Oil Type:** DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA021065	---	---	---
Sample Date	20 Jul 2023	---	---	---
Machine Hours	315	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Oxidation (PA)	%	56	---	---	---

### CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	41	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

### WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 55	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1144	---	---	---
Magnesium	ppm	█ 878	---	---	---
Zinc	ppm	█ 1131	---	---	---
Phosphorus	ppm	█ 1038	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 13	---	---	---

**TORONTO YACHT SERVICES**  
475 UNWIN AVE  
TORONTO, ON  
CA M4M 3M2  
Contact: Jon  
info@torontoyachtservices.com  
T: (416)886-9992  
F:

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** TOR101TOR  
**Unique No:** 5616404  
**Signed:** Kevin Marson  
**Report Date:** 21 Jul 2023

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## GRAPHS

