

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## 9513774 - STARBOARD DIESEL ENGINE

Sample No: VPA039477

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA039477	---	---	---
Sample Date	24 Jun 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

**G & B Sports Marine Ltd**  
2508 Lakeshore Road West  
OAKVILLE, ON  
CA L6L 1H8  
Contact:

T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	8.7	---	---	---
Oxidation (PA)	%	24	---	---	---

### CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	34	---	---	---
Sulfation (PA)	%	38	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.7	---	---	---
Silicon	ppm	4	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	0	---	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 20 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Lead ppm levels are noted. All other component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	10	---	---	---
Copper	ppm	189	---	---	---
Lead	ppm	181	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	116	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	2446	---	---	---
Magnesium	ppm	20	---	---	---
Zinc	ppm	1005	---	---	---
Phosphorus	ppm	969	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	86	---	---	---

Depot: VP152550  
Unique No: 5604224  
Signed: Kevin Marson  
Report Date: 30 Jun 2023

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## GRAPHS

