

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 3194009755 - STARBOARD IPS

Sample No: VPA050990

Oil Type: GEAR OIL SAE 75W90

### SAMPLE INFORMATION

Sample Number	VPA050990	VPA047057	---	---
Sample Date	28 Jul 2023	21 Mar 2023	---	---
Machine Hours	1031	1023	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	SEVERE	---	---

### ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2  
NAPLES, FL

US 34104

Contact: KEITH SPICER

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F:

### OIL CONDITION

Visc @ 40°C	cSt	█ 107	█ 111	---	---
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### CONTAMINATION

Water	%	---	█ 1.76	---	---
Silicon	ppm	█ 9	█ 15	---	---
Sodium	ppm	█ 12	█ 196	---	---
Potassium	ppm	█ 1	█ 7	---	---

### 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		█ 18	█ 20	---	---
Iron	ppm	█ 26	█ 447	---	---
Copper	ppm	█ 11	█ 47	---	---
Lead	ppm	█ 0	█ 2	---	---
Tin	ppm	█ 0	<1	---	---
Aluminum	ppm	█ 1	█ 19	---	---
Chromium	ppm	█ <1	█ 3	---	---
Molybdenum	ppm	█ 0	█ <1	---	---
Nickel	ppm	█ 0	█ 6	---	---
Titanium	ppm	█ 0	<1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ 6	---	---
Vanadium	ppm	█ 0	<1	---	---

### ADDITIVES

Calcium	ppm	█ 3	█ 25	---	---
Magnesium	ppm	█ 2	█ 25	---	---
Zinc	ppm	█ 2	█ 71	---	---
Phosphorus	ppm	█ 1475	█ 1642	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 379	█ 310	---	---

Depot: VPADVNP

Unique No: 10579386

Signed: Sean Felton

Report Date: 02 Aug 2023

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## GRAPHS

