

# OIL ANALYSIS REPORT



**AARON EASTERLY PATRICK/502591-7000 VOLVO PENTA 3950002934 - STARBOARD IPS**

**Sample No:** VPA059009

**Oil Type:** VOLVO PENTA GL-5 SAE 75W90

## SAMPLE INFORMATION

Sample Number	<b>VPA059009</b>	VPA050537	VPA034048	VPA038683
Sample Date	<b>05 Dec 2023</b>	03 Jul 2023	17 Aug 2022	06 Jul 2021
Machine Hours	<b>0</b>	395	0	561
Oil Hours	<b>0</b>	0	0	10
Oil Changed	<b>Changed</b>	Changed	Not Changd	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>106</b>	111	106	108
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>0</b>	3	<1	2
Sodium	ppm	<b>15</b>	0	2	0
Potassium	ppm	<b>1</b>	7	<1	<1

## Diagnosis

Resample at the next service interval to monitor. (fwd shaft bent from impact).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		<b>29</b>	16	7	24
Iron	ppm	<b>98</b>	31	10	20
Copper	ppm	<b>6</b>	3	<1	2
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>3</b>	0	1	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>5</b>	5	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>7</b>	19	9	3
Magnesium	ppm	<b>14</b>	35	3	6
Zinc	ppm	<b>29</b>	4	5	0
Phosphorus	ppm	<b>1408</b>	1384	1385	1362
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>322</b>	387	356	397

**Depot:** VP794951  
**Unique No:** 10779504  
**Signed:** Don Baldrige  
**Report Date:** 12 Dec 2023

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## GRAPHS

