

# OIL ANALYSIS REPORT

# VOLVO PENTA

**DENISON 15109 VOLVO PENTA 3950005816 - STARBOARD IPS**

**Sample No:** VPA050784

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

## SAMPLE INFORMATION

Sample Number	<b>VPA050784</b>	VPA055244	VPA038628	VPA037724
Sample Date	<b>15 Sep 2023</b>	25 May 2023	14 Sep 2021	16 Apr 2021
Machine Hours	<b>1400</b>	1040	0	482
Oil Hours	<b>1</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	N/A	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>106</b>	103	107	106
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## CONTAMINATION

Silicon	ppm	<b>1</b>	1	4	0
Sodium	ppm	<b>2</b>	2	0	1
Potassium	ppm	<b>0</b>	1	0	2

## WEAR METALS

PQ		<b>12</b>	13	20	20
Iron	ppm	<b>20</b>	15	13	18
Copper	ppm	<b>6</b>	6	2	4
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>5</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>1</b>	1	<1	1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>9</b>	11	7	4
Magnesium	ppm	<b>8</b>	17	6	26
Zinc	ppm	<b>0</b>	0	2	<1
Phosphorus	ppm	<b>1382</b>	1367	1337	1486
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>330</b>	307	363	377

## 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.

**Depot:** VP151520  
**Unique No:** 10656765  
**Signed:** Don Baldrige  
**Report Date:** 21 Sep 2023

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## GRAPHS

