

# OIL ANALYSIS REPORT

# VOLVO PENTA

**DOUG ZALK 7715233 VOLVO PENTA 3940024276 - STARBOARD IPS**

**Sample No:** VPA042689

**Oil Type:** GEAR OIL SAE 75W90

## SAMPLE INFORMATION

Sample Number	<b>VPA042689</b>	VPA026057	VPA023501	VPA025707
Sample Date	<b>19 Jul 2023</b>	20 Jun 2022	23 Jun 2021	18 May 2020
Machine Hours	<b>258</b>	220	150	66
Oil Hours	<b>0</b>	70	82	66
Oil Changed	<b>N/A</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**Pacific Power Group - VP981534**

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## OIL CONDITION

Visc @ 40°C	cSt	<b>110</b>	111	107	106
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## CONTAMINATION

Silicon	ppm	<b>6</b>	9	8	11
Sodium	ppm	<b>0</b>	6	8	2
Potassium	ppm	<b>&lt;1</b>	0	2	9

## WEAR METALS

PQ		<b>17</b>	22	22	24
Iron	ppm	<b>22</b>	66	62	32
Copper	ppm	<b>1</b>	3	5	3
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>0</b>	<1	1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	1	0
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	2	<1	<1
Manganese	ppm	<b>&lt;1</b>	2	3	3
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>12</b>	7	32	11
Magnesium	ppm	<b>1</b>	2	9	51
Zinc	ppm	<b>7</b>	7	21	6
Phosphorus	ppm	<b>1369</b>	1318	1322	1252
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>358</b>	297	384	288

## 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:** VP99031103

**Unique No:** 10565328

**Signed:** Don Baldrige

**Report Date:** 24 Jul 2023

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**VOLVO  
PENTA**

## GRAPHS

