

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MARLENE 0449-041 - PORT DIESEL ENGINE

**Sample No:** VPA058925  
**Oil Type:** YANMAR 5W40

### SAMPLE INFORMATION

Sample Number	VPA058925	VPA044200	VPA043570	VPA034507
Sample Date	08 Dec 2023	22 Dec 2022	23 Dec 2021	11 Jan 2021
Machine Hours	362	326	281	0
Oil Hours	34	45	0	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

### The Talaria Company

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### OIL CONDITION

Visc @ 100°C	cSt	13.8	13.2	14.4	14.9
Base Number (BN)	mg KOH/g	8.4	8.6	11.2	---
Oxidation (PA)	%	59	50	37	62

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.3	0.2
Nitration (PA)	%	63	63	58	52
Sulfation (PA)	%	55	50	40	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	2	4
Sodium	ppm	2	3	7	2
Potassium	ppm	5	3	3	8

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	7	12	10	9
Copper	ppm	16	16	6	3
Lead	ppm	0	<1	<1	3
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	16	19	<1	0
Nickel	ppm	2	1	1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

### ADDITIVES

Calcium	ppm	1376	1715	2424	2472
Magnesium	ppm	542	442	10	17
Zinc	ppm	1137	1080	906	1027
Phosphorus	ppm	964	934	843	909
Barium	ppm	0	0	0	0
Boron	ppm	109	117	82	151

**Depot:** VP592286  
**Unique No:** 10794184  
**Signed:** Don Baldrige  
**Report Date:** 20 Dec 2023

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## GRAPHS

