

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MICHAEL AULT TOM VOLVO PENTA 2006022908 - PORT DIESEL ENGINE

Sample No: VPA048754

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA048754</b>	VPA046746	VPA018222	VPA009922
Sample Date	<b>07 Nov 2023</b>	24 Feb 2022	18 May 2018	19 May 2017
Machine Hours	<b>1036</b>	0	386	340
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### ADMIRALTY MARINE

2775 KURTZ ST, STE 12

SAN DIEGO, CA

US 92110

Contact: Terry Albee

TALBEE@ADMIRALTYMARINE.NET

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.9</b>	14.1	14.23	14.95
Base Number (BN)	mg KOH/g	<b>9.2</b>	8.7	---	---
Oxidation (PA)	%	<b>63</b>	76	52	48

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.2	0	0
Nitration (PA)	%	<b>63</b>	92	50	50
Sulfation (PA)	%	<b>54</b>	61	47	50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	6	6
Sodium	ppm	<b>0</b>	3	2	3
Potassium	ppm	<b>1</b>	3	11	16

### WEAR METALS

Iron	ppm	<b>5</b>	4	7	11
Copper	ppm	<b>9</b>	9	2	5
Lead	ppm	<b>3</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>3</b>	2	2	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>47</b>	10	64	84
Nickel	ppm	<b>&lt;1</b>	1	<1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1055</b>	1386	1123	1492
Magnesium	ppm	<b>931</b>	791	892	366
Zinc	ppm	<b>1226</b>	1017	1032	1167
Phosphorus	ppm	<b>997</b>	857	934	1052
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>10</b>	66	68	433

### 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.

Depot: VP151529

Unique No: 10740605

Signed: Angela Borella

Report Date: 15 Nov 2023

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**VOLVO  
PENTA**

## GRAPHS

