

# OIL ANALYSIS REPORT



## HAAR BUD VOLVO PENTA TAMD41P-A 2041062904 - PORT DIESEL ENGINE

Sample No: VPA036971

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA036971	VPA047976	VPA035648	VPA034405
Sample Date	07 Nov 2023	17 Nov 2022	10 Dec 2021	08 Dec 2020
Machine Hours	0	0	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### Point Judith Marina

360 Gooseberry Road  
WAKEFIELD, RI  
US 02879

Contact: MATT ST. ANGELO  
service@pjmarina.com;canastasio@wearcheckusa.com  
T: (401)789-7189  
F: (401)783-5350

### OIL CONDITION

Visc @ 100°C	cSt	14.3	13.8	13.9	14.4
Base Number (BN)	mg KOH/g	8.5	11.6	9.4	---
Oxidation (PA)	%	71	72	71	82

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	63	69	63	81
Sulfation (PA)	%	59	61	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	10	9
Sodium	ppm	1	1	2	4
Potassium	ppm	6	1	<1	<1

### 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	18	15	23	27
Copper	ppm	6	9	10	12
Lead	ppm	<1	1	3	2
Tin	ppm	<1	2	4	2
Aluminum	ppm	1	2	2	2
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	11	68	69	77
Nickel	ppm	<1	<1	2	2
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

### ADDITIVES

Calcium	ppm	2089	1131	1232	1380
Magnesium	ppm	147	1000	1077	1079
Zinc	ppm	1335	1296	1389	1456
Phosphorus	ppm	929	1071	1142	1205
Barium	ppm	0	0	0	0
Boron	ppm	161	1	4	7

Depot: VP153811  
Unique No: 10755295  
Signed: Sean Felton  
Report Date: 27 Nov 2023

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# VOLVO PENTA

## GRAPHS

