

# OIL ANALYSIS REPORT

# VOLVO PENTA

## R. STORLAZZI BUD VOLVO PENTA D6-435 2006022257 - PORT DIESEL ENGINE

Sample No: VPA044789

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

### SAMPLE INFORMATION

Sample Number	VPA044789	VPA044718	VPA040837	VPA024065
Sample Date	01 Dec 2023	15 Nov 2022	16 Dec 2021	08 Jul 2020
Machine Hours	1022	957	908	762
Oil Hours	0	0	146	113
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	SEVERE	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	13.6	13.7	14.0
Base Number (BN)	mg KOH/g	8.5	11.3	10	---
Oxidation (PA)	%	71	68	73	73

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	68	68	78	79
Sulfation (PA)	%	58	60	62	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	10	6	5
Sodium	ppm	6	3	4	3
Potassium	ppm	4	1	2	0

### WEAR METALS

Iron	ppm	47	21	22	24
Copper	ppm	13	10	16	11
Lead	ppm	0	2	5	<1
Tin	ppm	<1	<1	2	0
Aluminum	ppm	13	46	51	3
Chromium	ppm	1	3	3	<1
Molybdenum	ppm	70	64	67	75
Nickel	ppm	0	<1	3	4
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

### ADDITIVES

Calcium	ppm	1197	1112	1186	1260
Magnesium	ppm	844	937	1092	1094
Zinc	ppm	1179	1247	1368	1272
Phosphorus	ppm	937	1053	1184	1143
Barium	ppm	0	3	6	0
Boron	ppm	12	10	20	38

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 acceptable for the time in service.

Depot: VP153811  
Unique No: 10777226  
Signed: Angela Borella  
Report Date: 08 Dec 2023

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

