

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BRIAN 7011446309 - PORT DIESEL ENGINE

Sample No: VPA045997

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA045997	VPA045996	VPA034118	VPA034239
Sample Date	03 Nov 2023	15 Aug 2023	13 Jan 2023	15 Sep 2022
Machine Hours	8508	8156	7016	6459
Oil Hours	350	451	320	250
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

### FURY KEY WEST

313 MARGARET ST

KEY WEST, FL

US 33040

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### OIL CONDITION

Visc @ 100°C	cSt	12.8	12.0	12.1	12.1
Base Number (BN)	mg KOH/g	9.1	8.9	9.7	5.3
Oxidation (PA)	%	64	61	56	68

### CONTAMINATION

Soot %	%	0.4	0.5	0.4	0.2
Nitration (PA)	%	66	61	53	73
Sulfation (PA)	%	55	56	53	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	3	2
Sodium	ppm	4	3	2	<1
Potassium	ppm	0	<1	1	<1

### WEAR METALS

Iron	ppm	2	5	4	4
Copper	ppm	16	13	15	6
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	1	0	0
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	49	58	57	60
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	<1	0	0

### ADDITIVES

Calcium	ppm	1460	1199	1027	1046
Magnesium	ppm	559	867	860	912
Zinc	ppm	1294	1234	1168	1206
Phosphorus	ppm	1037	1018	977	1032
Barium	ppm	0	0	0	0
Boron	ppm	19	9	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 acceptable for the time in service.

Depot: VPFURKEY

Unique No: 10741855

Signed: Sean Felton

Report Date: 16 Nov 2023

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## GRAPHS

