

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BIZZY M52746 - PORT DIESEL ENGINE

Sample No: VPA058473

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA058473	VPA044170	VPA030022	VPA010850
Sample Date	29 Nov 2023	21 Dec 2022	26 Feb 2020	26 Oct 2017
Machine Hours	1033	0	0	821
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

The Talaria Company

202 Banks St., One Little Harbor Landing
OXFORD, MD

US 21654

Contact: TRACY PELLERIN

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OIL CONDITION

Visc @ 100°C	cSt	13.7	14.1	14.1	13.81
Base Number (BN)	mg KOH/g	9.2	8.8	---	---
Oxidation (PA)	%	71	69	57	44

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0
Nitration (PA)	%	63	54	49	50
Sulfation (PA)	%	55	57	51	42
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	5
Sodium	ppm	2	2	3	3
Potassium	ppm	<1	8	0	1

WEAR METALS

Iron	ppm	8	9	11	10
Copper	ppm	5	4	5	10
Lead	ppm	<1	2	0	<1
Tin	ppm	0	<1	0	7
Aluminum	ppm	1	1	3	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	38	2	45	58
Nickel	ppm	0	<1	1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1737	2335	1230	1081
Magnesium	ppm	456	23	775	899
Zinc	ppm	1335	1270	1050	1124
Phosphorus	ppm	1075	1049	910	893
Barium	ppm	0	0	0	0
Boron	ppm	59	199	28	2

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: VP592286

Unique No: 10767885

Signed: Sean Felton

Report Date: 05 Dec 2023

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GRAPHS

