

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BOLLYMENA M56604 - CENTER DIESEL ENGINE

Sample No: VPA058712

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA058712	VPA046300	VPA043572	VPA033163
Sample Date	11 Dec 2023	13 Jan 2023	27 Dec 2021	05 Feb 2021
Machine Hours	465	446	419	395
Oil Hours	20	26	24	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

### The Talaria Company

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

US 21654

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 13.9	█ 14.1	█ 13.8
Base Number (BN)	mg KOH/g	█ 8.5	█ 9.0	█ 9.1	---
Oxidation (PA)	%	66	66	69	64

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	█ 0.1	█ 0.1	█ 0.1	█ 0.1
Nitration (PA)	%	51	54	56	58
Sulfation (PA)	%	56	57	58	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 2	█ 3	█ 2	█ 4
Sodium	ppm	█ 2	█ 2	█ 4	█ 2
Potassium	ppm	█ 8	█ 8	█ 7	█ 8

### WEAR METALS

Iron	ppm	█ 6	█ 8	█ 7	█ 9
Copper	ppm	█ <1	█ 2	█ 3	█ 4
Lead	ppm	█ 0	█ 2	█ <1	█ 0
Tin	ppm	█ <1	█ <1	█ <1	█ 0
Aluminum	ppm	█ 1	█ <1	█ <1	█ 1
Chromium	ppm	█ 0	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 0	█ 3	█ 5	█ 18
Nickel	ppm	█ <1	█ <1	█ <1	█ <1
Titanium	ppm	█ 0	█ 0	█ <1	█ <1
Silver	ppm	█ 0	█ 0	█ <1	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	<1	<1	<1	0

### ADDITIVES

Calcium	ppm	█ 2077	█ 2325	█ 1971	█ 1971
Magnesium	ppm	█ 22	█ 39	84	█ 293
Zinc	ppm	█ 1176	█ 1271	█ 1024	█ 1148
Phosphorus	ppm	█ 1030	█ 1054	█ 953	█ 1126
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 202	█ 196	█ 168	█ 122

### 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: 10794139

Signed: Sean Felton

Report Date: 20 Dec 2023

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**VOLVO  
PENTA**

## GRAPHS

