

# OIL ANALYSIS REPORT

# VOLVO PENTA

**@VENTURE EV A734245 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA058424

**Oil Type:** SHELL ROTELLA T 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA058424</b>	VPA044209	VPA043927	VPA033139
Sample Date	<b>28 Nov 2023</b>	14 Dec 2022	04 Jan 2022	04 Jan 2021
Machine Hours	<b>633</b>	573	580	0
Oil Hours	<b>68</b>	0	104	0
Oil Changed	<b>Changed</b>	Changed	N/A	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### The Talaria Company

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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	14.5	14.7	14.4
Base Number (BN)	mg KOH/g	<b>8.0</b>	9.3	8.8	---
Oxidation (PA)	%	<b>61</b>	62	67	62

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.2	0.3
Nitration (PA)	%	<b>49</b>	53	53	58
Sulfation (PA)	%	<b>52</b>	54	57	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	3	3
Sodium	ppm	<b>2</b>	3	4	2
Potassium	ppm	<b>4</b>	6	8	7

## 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	<b>13</b>	9	12	13
Copper	ppm	<b>3</b>	2	5	7
Lead	ppm	<b>0</b>	1	2	3
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	<1	1	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>36</b>	7	1	4
Nickel	ppm	<b>1</b>	<1	2	3
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0

## ADDITIVES

Calcium	ppm	<b>1851</b>	2152	2099	2136
Magnesium	ppm	<b>362</b>	73	12	17
Zinc	ppm	<b>1265</b>	1115	1051	1052
Phosphorus	ppm	<b>1106</b>	987	944	927
Barium	ppm	<b>3</b>	0	0	0
Boron	ppm	<b>114</b>	177	179	162

**Depot:** VP592286  
**Unique No:** 10778830  
**Signed:** Doug Bogart  
**Report Date:** 11 Dec 2023

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## GRAPHS

