

# OIL ANALYSIS REPORT

# VOLVO PENTA

## PINCH ME M50861R - CENTER DIESEL ENGINE

**Sample No:** VPA058260

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

### SAMPLE INFORMATION

Sample Number	<b>VPA058260</b>	VPA046277	VPA043781	VPA030062
Sample Date	<b>06 Nov 2023</b>	23 Jan 2023	13 Dec 2021	13 Nov 2019
Machine Hours	<b>465</b>	450	430	363
Oil Hours	<b>18</b>	21	35	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### The Talaria Company

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US 21654

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.9	14.3	13.6
Base Number (BN)	mg KOH/g	<b>8.8</b>	9.0	8.8	---
Oxidation (PA)	%	<b>64</b>	66	69	52

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>52</b>	53	53	48
Sulfation (PA)	%	<b>54</b>	56	58	47
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	3	4
Sodium	ppm	<b>2</b>	2	2	2
Potassium	ppm	<b>5</b>	7	6	0

### WEAR METALS

Iron	ppm	<b>4</b>	4	4	4
Copper	ppm	<b>3</b>	3	3	4
Lead	ppm	<b>0</b>	1	2	0
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>1</b>	1	<1	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>26</b>	2	6	45
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	<1	0

### ADDITIVES

Calcium	ppm	<b>1765</b>	2291	2131	1224
Magnesium	ppm	<b>286</b>	42	88	769
Zinc	ppm	<b>1151</b>	1275	1193	1116
Phosphorus	ppm	<b>958</b>	1052	1046	965
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>129</b>	196	205	23

### 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:** 10751229

**Signed:** Angela Borella

**Report Date:** 21 Nov 2023

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## GRAPHS

