

# OIL ANALYSIS REPORT

# VOLVO PENTA

**SEVERN UP 10072 H190617871 - CENTER GENSET**

**Sample No:** VPA059680

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

## SAMPLE INFORMATION

Sample Number	<b>VPA059680</b>	VPA044248	VPA043825	VPA033150
Sample Date	<b>22 Nov 2023</b>	03 Nov 2022	06 Jan 2022	18 Jan 2021
Machine Hours	<b>85</b>	69	61	65
Oil Hours	<b>15</b>	0	16	0
Oil Changed	<b>N/A</b>	Changed	Not Changd	N/A
Sample Status	<b>ABNORMAL</b>	ATTENTION	ABNORMAL	NORMAL

### The Talaria Company

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## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.1</b>	■ 12.9	▲ 12.2	■ 11.8
Base Number (BN)	mg KOH/g	■ <b>8.5</b>	■ 9.7	■ 9.20	---
Oxidation (PA)	%	<b>61</b>	68	66	61

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	■ <b>0</b>	■ 0.1	■ 0	■ 0.1
Nitration (PA)	%	<b>43</b>	48	48	53
Sulfation (PA)	%	<b>54</b>	59	57	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	▲ <b>7.9</b>	▲ 3.7	▲ 6.8	< 1.0
Silicon	ppm	■ <b>3</b>	■ 4	■ 4	■ 11
Sodium	ppm	■ <b>1</b>	■ 2	■ 5	■ 4
Potassium	ppm	■ <b>5</b>	■ 6	■ 7	■ 0

## WEAR METALS

Iron	ppm	■ <b>1</b>	■ 2	■ 4	■ 10
Copper	ppm	■ <b>&lt;1</b>	■ <1	■ 2	■ 12
Lead	ppm	■ <b>0</b>	■ <1	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ <1	■ <1	■ 0
Aluminum	ppm	■ <b>&lt;1</b>	■ <1	■ 1	■ 5
Chromium	ppm	■ <b>0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	■ <b>&lt;1</b>	■ 2	■ 6	■ 57
Nickel	ppm	■ <b>0</b>	■ 0	■ <1	■ 0
Titanium	ppm	<b>0</b>	0	<1	■ <1
Silver	ppm	■ <b>0</b>	0	<1	0
Manganese	ppm	■ <b>0</b>	■ <1	■ <1	■ 2
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	■ <b>2105</b>	■ 1970	■ 1907	■ 1993
Magnesium	ppm	■ <b>21</b>	■ 22	57	■ 525
Zinc	ppm	■ <b>1218</b>	■ 1111	■ 957	■ 1210
Phosphorus	ppm	■ <b>982</b>	■ 904	■ 906	■ 1028
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 7
Boron	ppm	■ <b>192</b>	■ 184	■ 174	■ 67

## Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** VP592286

**Unique No:** 10767890

**Signed:** Jonathan Hester

**Report Date:** 08 Dec 2023

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## GRAPHS

