

# OIL ANALYSIS REPORT

# VOLVO PENTA

## SEVERN UP 10072 A1061996 - STARBOARD DIESEL ENGINE

Sample No: VPA059861

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA059861</b>	VPA044678	VPA043822	VPA033149
Sample Date	<b>22 Nov 2023</b>	03 Nov 2022	06 Jan 2022	18 Jan 2021
Machine Hours	<b>234</b>	182	146	96
Oil Hours	<b>42</b>	18	50	0
Oil Changed	<b>N/A</b>	Changed	Not Changd	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### The Talaria Company

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OXFORD, MD

US 21654

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.3</b>	14.3	14.6	13.3
Base Number (BN)	mg KOH/g	<b>8.5</b>	10	9.2	---
Oxidation (PA)	%	<b>63</b>	68	66	55

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>45</b>	51	48	44
Sulfation (PA)	%	<b>55</b>	60	58	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	5	22
Sodium	ppm	<b>2</b>	2	5	4
Potassium	ppm	<b>5</b>	6	7	0

### WEAR METALS

Iron	ppm	<b>6</b>	7	7	12
Copper	ppm	<b>1</b>	2	4	16
Lead	ppm	<b>0</b>	<1	<1	4
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	1	2	7
Chromium	ppm	<b>0</b>	<1	<1	1
Molybdenum	ppm	<b>0</b>	2	5	56
Nickel	ppm	<b>0</b>	<1	1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>2165</b>	2059	1939	1197
Magnesium	ppm	<b>15</b>	45	89	1016
Zinc	ppm	<b>1304</b>	1174	1016	1260
Phosphorus	ppm	<b>1045</b>	951	938	1094
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>197</b>	186	173	5

### 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.

Depot: VP592286

Unique No: 10767896

Signed: Sean Felton

Report Date: 05 Dec 2023

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## GRAPHS

