

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**PRECIOUS TIME 10072 A1139428 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA060630

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

## SAMPLE INFORMATION

Sample Number	<b>VPA060630</b>	VPA041360	---	---
Sample Date	<b>14 Dec 2023</b>	30 Dec 2022	---	---
Machine Hours	<b>144</b>	79	---	---
Oil Hours	<b>65</b>	50	---	---
Oil Changed	<b>N/A</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.7</b>	13.0	---	---
Base Number (BN)	mg KOH/g	<b>9.2</b>	10.7	---	---
Oxidation (PA)	%	<b>61</b>	56	---	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>49</b>	46	---	---
Sulfation (PA)	%	<b>53</b>	52	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>10</b>	25	---	---
Sodium	ppm	<b>2</b>	3	---	---
Potassium	ppm	<b>2</b>	<1	---	---

## WEAR METALS

Iron	ppm	<b>6</b>	10	---	---
Copper	ppm	<b>4</b>	10	---	---
Lead	ppm	<b>&lt;1</b>	3	---	---
Tin	ppm	<b>&lt;1</b>	2	---	---
Aluminum	ppm	<b>4</b>	7	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>44</b>	59	---	---
Nickel	ppm	<b>1</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>1460</b>	1171	---	---
Magnesium	ppm	<b>535</b>	876	---	---
Zinc	ppm	<b>1212</b>	1198	---	---
Phosphorus	ppm	<b>1059</b>	1030	---	---
Barium	ppm	<b>&lt;1</b>	0	---	---
Boron	ppm	<b>54</b>	13	---	---

### The Talaria Company

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### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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:** 10794164

**Signed:** Sean Felton

**Report Date:** 20 Dec 2023

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## GRAPHS

