

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## PINCH ME 20053189 - INBOARD - CENTER GEARBOX

**Sample No:** VPA058257  
**Oil Type:** SHELL ROTELLA T 30

### SAMPLE INFORMATION

Sample Number	<b>VPA058257</b>	VPA046299	VPA043778	VPA032574
Sample Date	<b>08 Nov 2023</b>	23 Jan 2023	13 Dec 2021	30 Nov 2020
Machine Hours	<b>465</b>	450	430	395
Oil Hours	<b>15</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 @ 40°C	cSt	<b>90.3</b>	93.3	104	101
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>6</b>	5	4	5
Sodium	ppm	<b>0</b>	2	2	1
Potassium	ppm	<b>1</b>	0	0	0

### WEAR METALS

PQ		<b>18</b>	12	21	17
Iron	ppm	<b>18</b>	6	7	6
Copper	ppm	<b>21</b>	17	21	21
Lead	ppm	<b>0</b>	0	<1	2
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	<1	<1	2
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>117</b>	113	104	90
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>2633</b>	2574	2302	2111
Magnesium	ppm	<b>24</b>	49	159	152
Zinc	ppm	<b>1133</b>	1091	958	904
Phosphorus	ppm	<b>990</b>	976	867	833
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>9</b>	4	8	3

### 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 condition of the oil is acceptable for the time in service.

**Depot:** VP592286  
**Unique No:** 10751867  
**Signed:** Jonathan Hester  
**Report Date:** 22 Nov 2023

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## GRAPHS

