



# CONSTRUCTION EQUIPMENT

DAVE BREEN 505825 VOLVO PENTA A819259 - PORT DIESEL ENGINE



**Sample No:** VCP059432  
**Oil Type:** VOLVO PENTA SAE 15W40  
**Job No:** 505825



## SAMPLE INFORMATION

Sample Number	<b>VCP059432</b>	VPA042454	VPA035461	VPA032335
Sample Date	<b>19 Dec 2023</b>	08 Feb 2023	06 Jan 2022	01 Mar 2021
Machine Hours	<b>278</b>	224	193	156
Oil Hours	<b>54</b>	31	50	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	13.6	13.7	13.8
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.5	10.7	---
Oxidation (PA)	%	<b>57</b>	54	56	54

## 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 suitable for further service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.2	0.3	0.3
Nitration (PA)	%	<b>43</b>	44	46	48
Sulfation (PA)	%	<b>52</b>	52	54	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	7	6
Sodium	ppm	<b>&lt;1</b>	<1	2	0
Potassium	ppm	<b>0</b>	2	0	<1



## WEAR METALS

Iron	ppm	<b>5</b>	9	8	10
Copper	ppm	<b>3</b>	3	5	6
Lead	ppm	<b>0</b>	1	2	1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>0</b>	<1	1	0
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>49</b>	61	58	60
Nickel	ppm	<b>0</b>	<1	1	<1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1084</b>	1143	1009	1135
Magnesium	ppm	<b>879</b>	1041	955	931
Zinc	ppm	<b>1147</b>	1347	1235	1165
Phosphorus	ppm	<b>889</b>	1052	1021	1093
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	<1	6	4

**Depot:** VP297371  
**Unique No:** 10805116  
**Signed:** Wes Davis  
**Report Date:** 27 Dec 2023



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## VOLVO GRAPHS

