OIL ANALYSIS REPORT

VOLVO PENTA

VONK 540680 VOLVO PENTA 1016156566 - PORT DIESEL ENGINE

Sample No: VPA0013284

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		**VPA0013284**	---	---	---
Sample Date		**21 Oct 2026**	---	---	---
Machine Hours		**885**	---	---	---
Oil Hours		**175**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**12.73**	---	---	---
Base Number (BN)	mg KOH/g	**6.8**	---	---	---
Oxidation (PA)	%	**53**	---	---	---

CONTAMINATION

Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**67**	---	---	---
Sulfation (PA)	%	**49**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**6**	---	---	---
Sodium	ppm	**<1**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**2**	---	---	---
Copper	ppm	**5**	---	---	---
Lead	ppm	**<1**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**0**	---	---	---
Molybdenum	ppm	**82**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**2026**	---	---	---
Magnesium	ppm	**19**	---	---	---
Zinc	ppm	**1101**	---	---	---
Phosphorus	ppm	**959**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**50**	---	---	---

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Contact: DEBBIE
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F:

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.

Depot: VP152963
Unique No: 12533411
Signed: Wes Davis
Report Date: 22 Oct 2026

OIL ANALYSIS REPORT

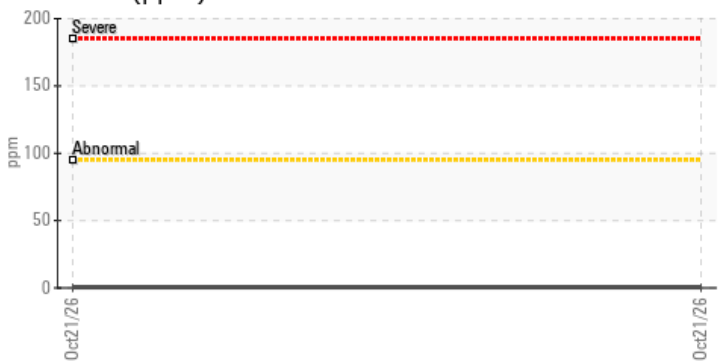
VOLVO PENTA

GRAPHS

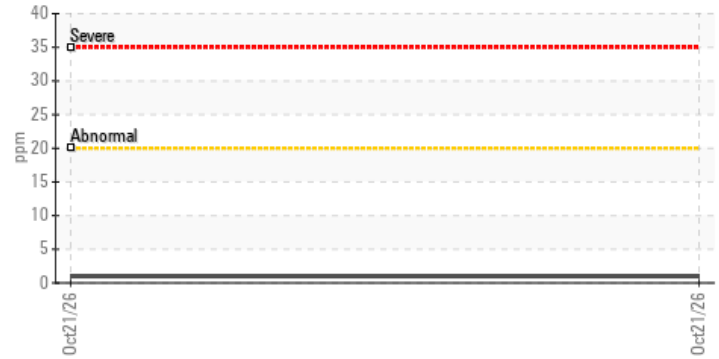
Iron (ppm)



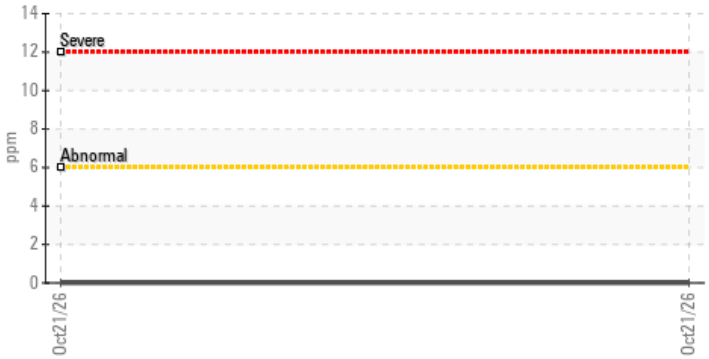
Lead (ppm)



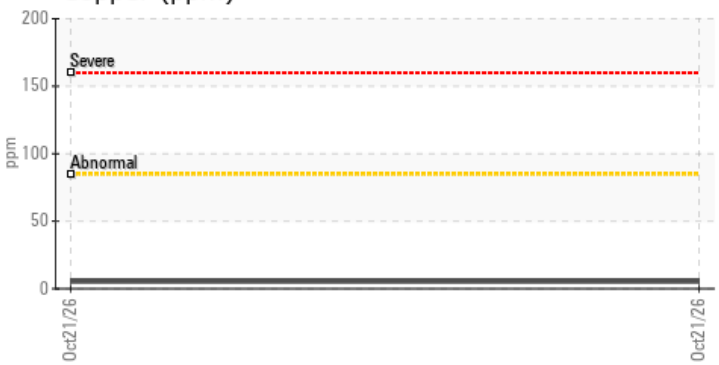
Aluminum (ppm)



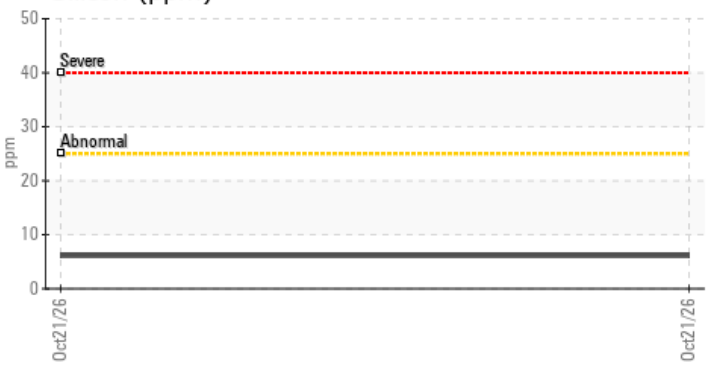
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number



OIL ANALYSIS REPORT

VOLVO PENTA

VONK 540680 VOLVO PENTA 1016156573 - STARBOARD DIESEL ENGINE

Sample No: VPA0013286

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		**VPA0013286**	---	---	---
Sample Date		**21 Oct 2026**	---	---	---
Machine Hours		**1239**	---	---	---
Oil Hours		**58**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**SEVERE**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ **8.04**	---	---	---
Base Number (BN)	mg KOH/g	**6.9**	---	---	---
Oxidation (PA)	%	**46**	---	---	---

CONTAMINATION

Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**59**	---	---	---
Sulfation (PA)	%	**45**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	▲ **19.8**	---	---	---
Silicon	ppm	**5**	---	---	---
Sodium	ppm	**0**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**1**	---	---	---
Copper	ppm	**2**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**<1**	---	---	---
Chromium	ppm	**0**	---	---	---
Molybdenum	ppm	**66**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**1595**	---	---	---
Magnesium	ppm	**21**	---	---	---
Zinc	ppm	**886**	---	---	---
Phosphorus	ppm	**774**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**53**	---	---	---

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Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP152963
Unique No: 12533412
Signed: Doug Bogart
Report Date: 22 Oct 2026

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

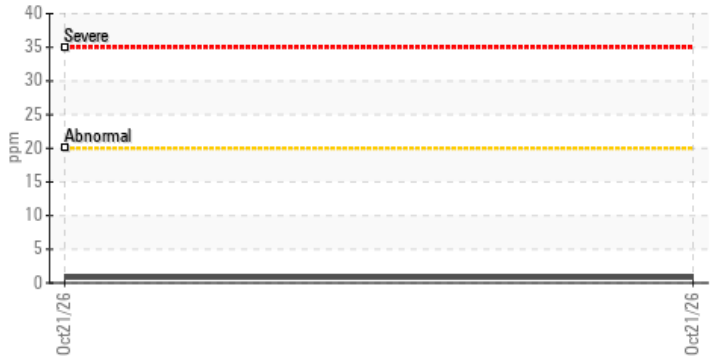
Iron (ppm)



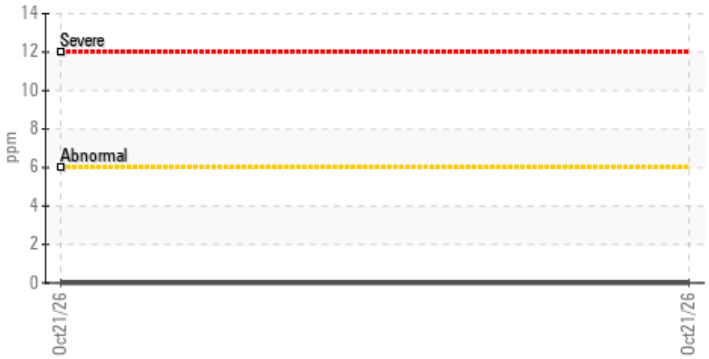
Lead (ppm)



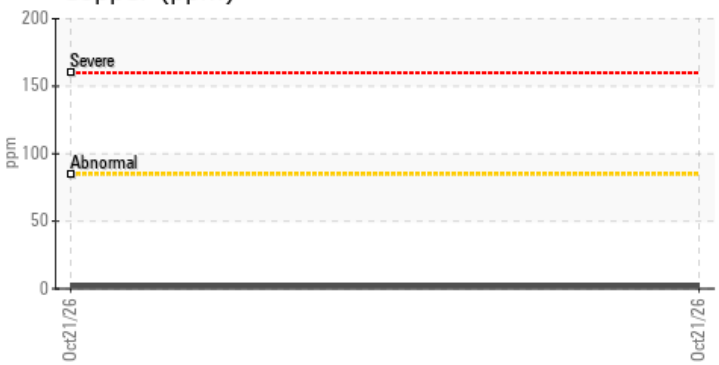
Aluminum (ppm)



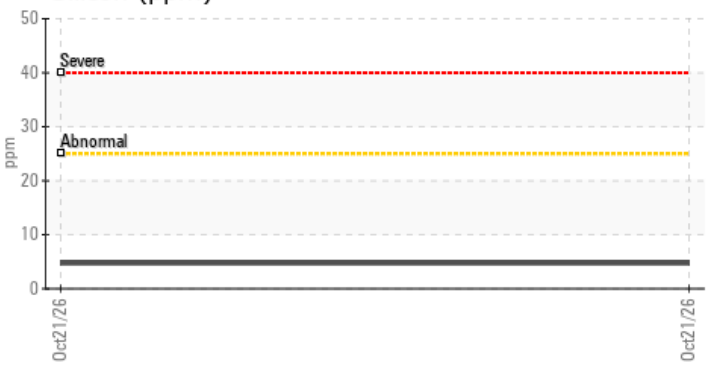
Chromium (ppm)



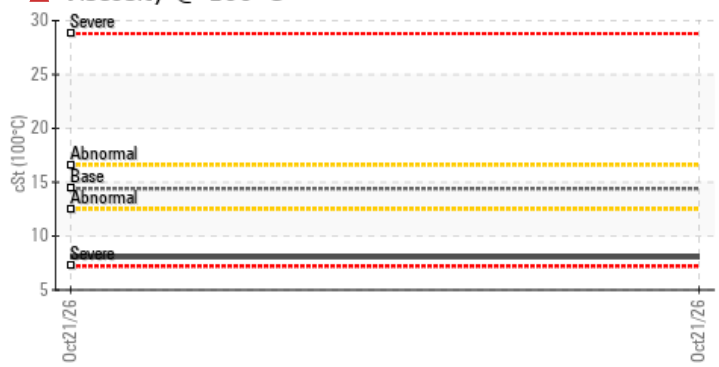
Copper (ppm)



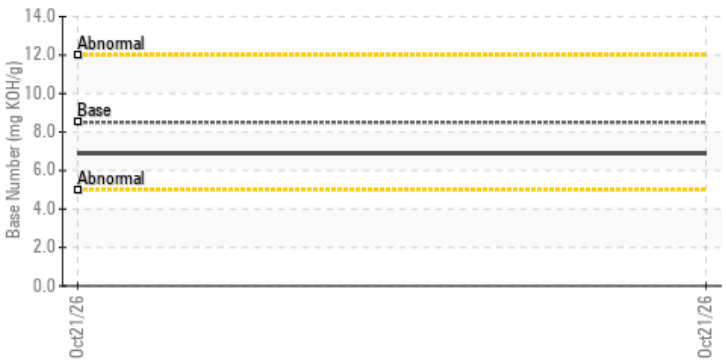
Silicon (ppm)



▲ Viscosity @ 100°C



Base Number



OIL ANALYSIS REPORT

VOLVO PENTA

VONK 540680 VOLVO PENTA 1016156565 - CENTER DIESEL ENGINE

Sample No: VPA0013285

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		**VPA0013285**	---	---	---
Sample Date		**21 Oct 2026**	---	---	---
Machine Hours		**1287**	---	---	---
Oil Hours		**288**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.48**	---	---	---
Base Number (BN)	mg KOH/g	**6.9**	---	---	---
Oxidation (PA)	%	**53**	---	---	---

CONTAMINATION

Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**64**	---	---	---
Sulfation (PA)	%	**50**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**5**	---	---	---
Sodium	ppm	**<1**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**2**	---	---	---
Copper	ppm	**3**	---	---	---
Lead	ppm	**1**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**0**	---	---	---
Molybdenum	ppm	**84**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**2011**	---	---	---
Magnesium	ppm	**28**	---	---	---
Zinc	ppm	**1141**	---	---	---
Phosphorus	ppm	**984**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**56**	---	---	---

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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: VP152963
Unique No: 12533413
Signed: Wes Davis
Report Date: 22 Oct 2026

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

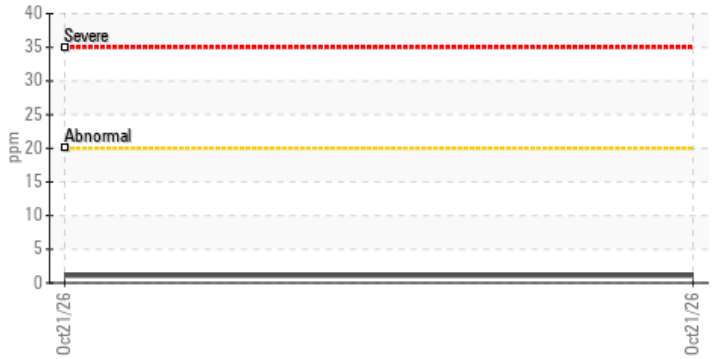
Iron (ppm)



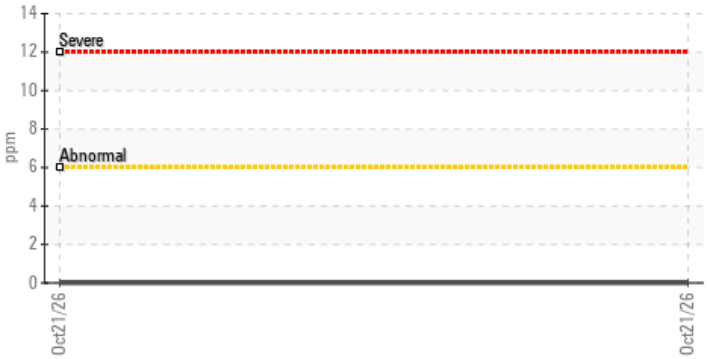
Lead (ppm)



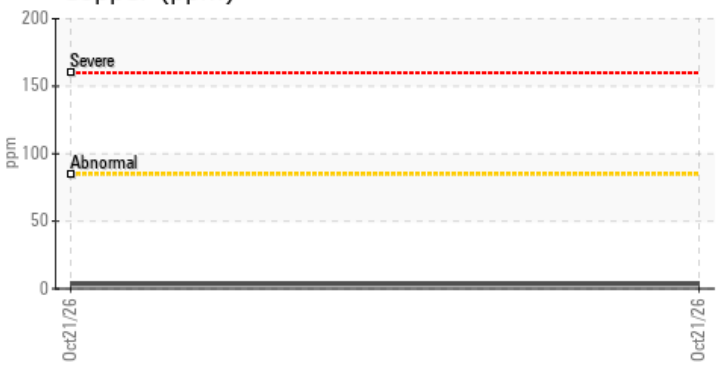
Aluminum (ppm)



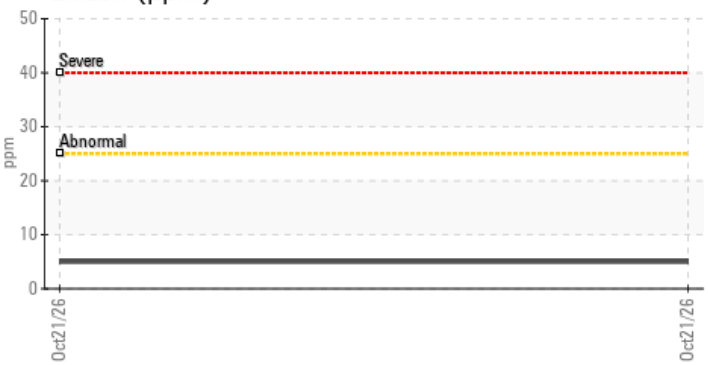
Chromium (ppm)



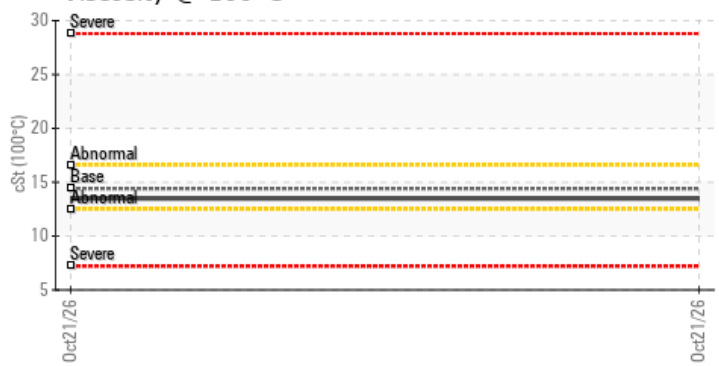
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number



OIL ANALYSIS REPORT

VOLVO PENTA

VONK 540680 VOLVO PENTA I512794002 - GENSET

Sample No: VPA0013287

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		**VPA0013287**	---	---	---
Sample Date		**21 Oct 2026**	---	---	---
Machine Hours		**2821**	---	---	---
Oil Hours		**195**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**14.41**	---	---	---
Base Number (BN)	mg KOH/g	**7.2**	---	---	---
Oxidation (PA)	%	**61**	---	---	---

CONTAMINATION

Soot %	%	**0.6**	---	---	---
Nitration (PA)	%	**75**	---	---	---
Sulfation (PA)	%	**56**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**11**	---	---	---
Sodium	ppm	**1**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**10**	---	---	---
Copper	ppm	**13**	---	---	---
Lead	ppm	**3**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**3**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**85**	---	---	---
Nickel	ppm	**2**	---	---	---
Titanium	ppm	**1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**2058**	---	---	---
Magnesium	ppm	**29**	---	---	---
Zinc	ppm	**1146**	---	---	---
Phosphorus	ppm	**973**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**46**	---	---	---

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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.

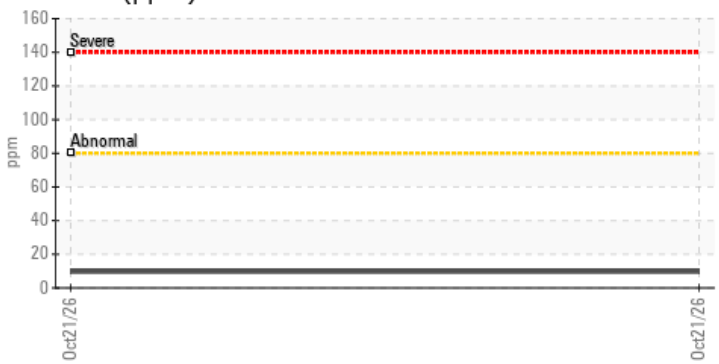
Depot: VP152963
Unique No: 12533414
Signed: Wes Davis
Report Date: 22 Oct 2026

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

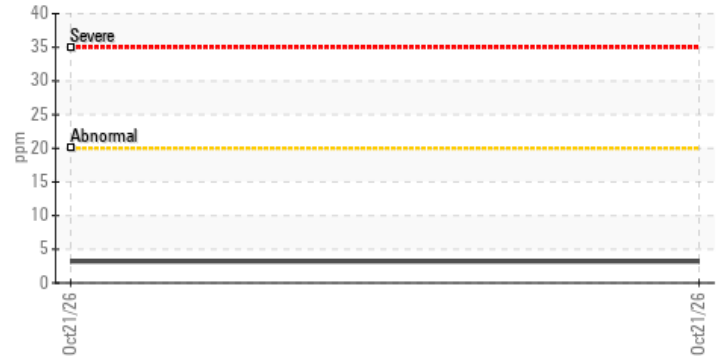
Iron (ppm)



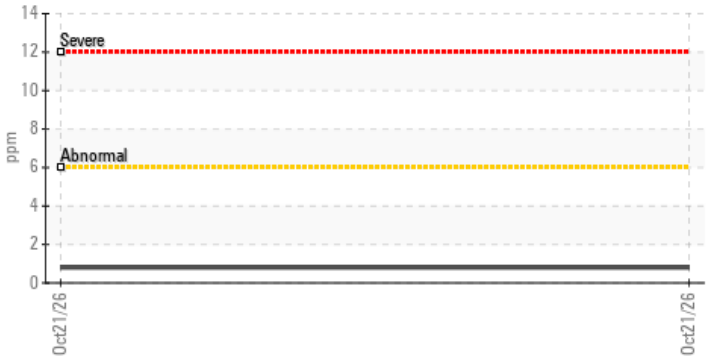
Lead (ppm)



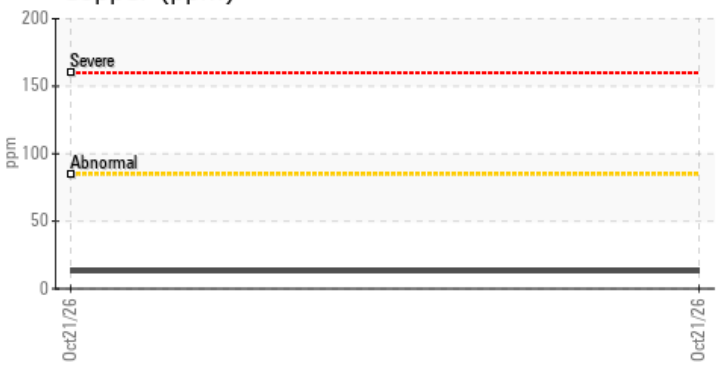
Aluminum (ppm)



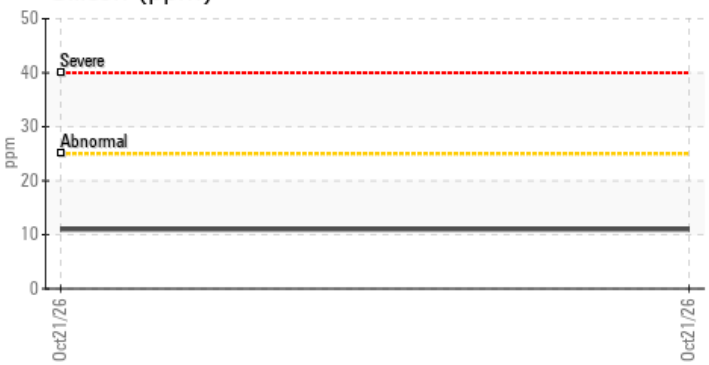
Chromium (ppm)



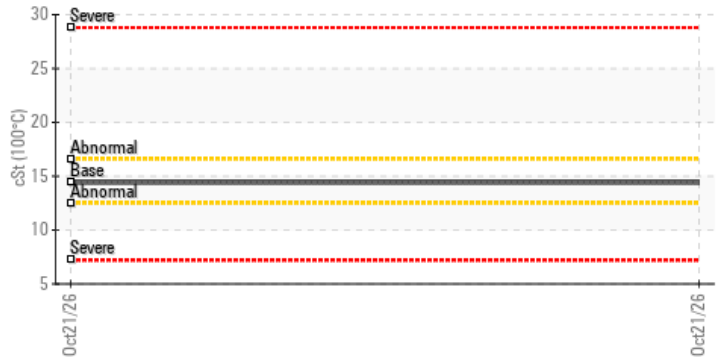
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

