OIL ANALYSIS REPORT

VOLVO PENTA

ZF 20021255 - STARBOARD TRANSMISSION

Sample No: VPA052120

Oil Type: SAE 30W

SAMPLE INFORMATION

Sample Number		**VPA052120**	---	---	---
Sample Date		**28 Dec 2023**	---	---	---
Machine Hours		**0**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ATTENTION**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**105**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Silicon	ppm	**4**	---	---	---
Sodium	ppm	**4**	---	---	---
Potassium	ppm	**1**	---	---	---

WEAR METALS

PQ		**102**	---	---	---
Iron	ppm	**81**	---	---	---
Copper	ppm	**136**	---	---	---
Lead	ppm	▲ **115**	---	---	---
Tin	ppm	**5**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**95**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**<1**	---	---	---
Manganese	ppm	**1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**2165**	---	---	---
Magnesium	ppm	**223**	---	---	---
Zinc	ppm	**1019**	---	---	---
Phosphorus	ppm	**953**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**12**	---	---	---

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The lead level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: VP99220003
Unique No: 10809066
Signed: Don Baldridge
Report Date: 03 Jan 2024

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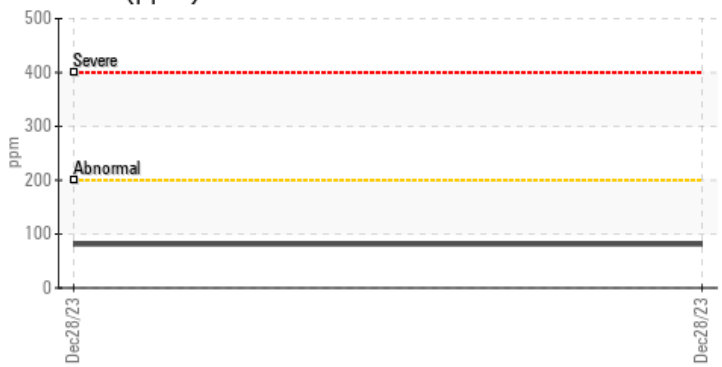
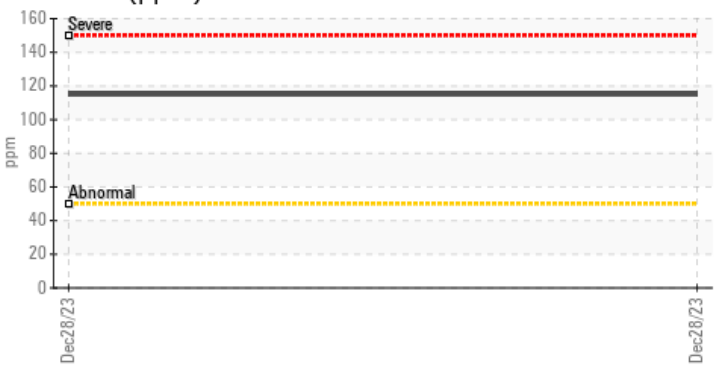
GRAPHS

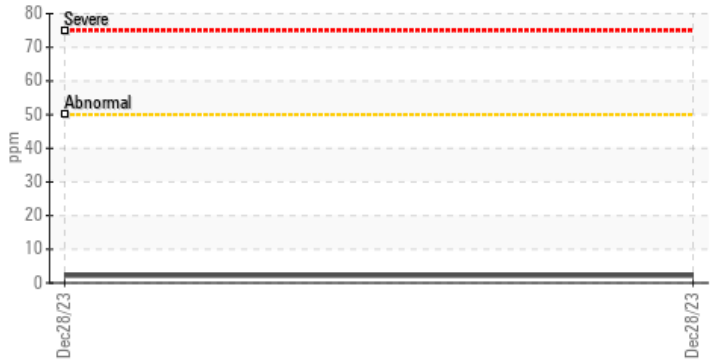
Iron (ppm)



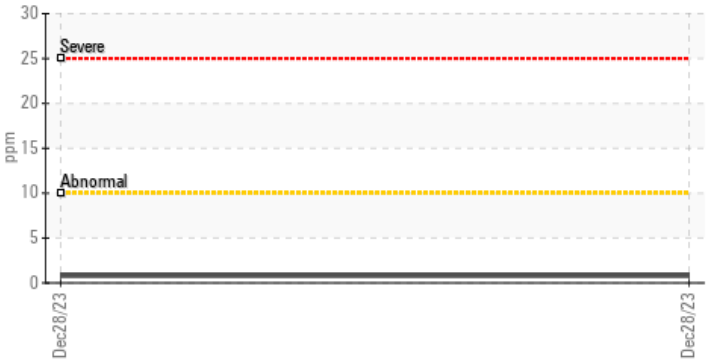
Lead (ppm)



Aluminum (ppm)

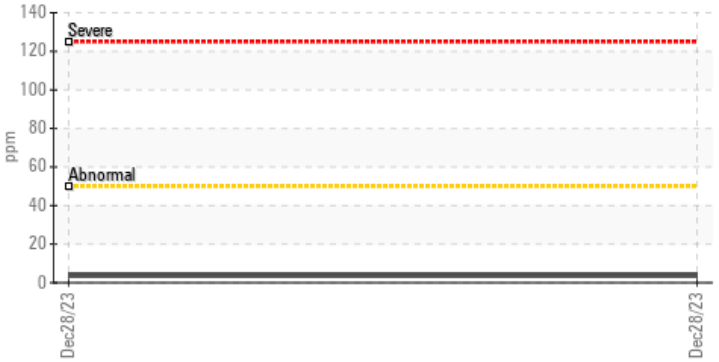


Chromium (ppm)

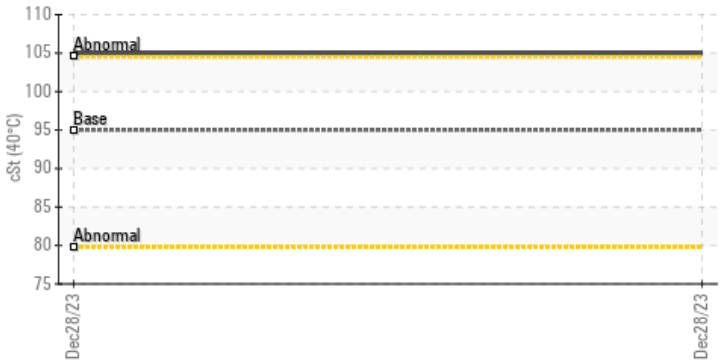


Copper (ppm)

Silicon (ppm)



Viscosity @ 40°C



PQ