OIL ANALYSIS REPORT

VOLVO PENTA

MANCHESTER 50 LEFT AG R812467M VOLVO PENTA 2013929976 - VARIABLE SPEED - PORT DIESEL ENGINE

Sample No: VPA056726

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		**VPA056726**	VPA048472	---	---
Sample Date		**15 Sep 2023**	06 Oct 2022	---	---
Machine Hours		**319**	223	---	---
Oil Hours		**225**	223	---	---
Oil Changed		**N/A**	N/A	---	---
Sample Status		**ATTENTION**	ATTENTION	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ **11.8**	▲ 11.8	---	---
Base Number (BN)	mg KOH/g	**10.3**	11.2	---	---
Oxidation (PA)	%	**71**	62	---	---

CONTAMINATION

Soot %	%	**0.1**	0.1	---	---
Nitration (PA)	%	**44**	54	---	---
Sulfation (PA)	%	**57**	56	---	---
Glycol	%	**NEG**	NEG	---	---
Fuel	%	**<1.0**	▲ 2.6	---	---
Silicon	ppm	**8**	17	---	---
Sodium	ppm	**2**	0	---	---
Potassium	ppm	**4**	12	---	---

WEAR METALS

Iron	ppm	**5**	10	---	---
Copper	ppm	**3**	15	---	---
Lead	ppm	**<1**	<1	---	---
Tin	ppm	**<1**	2	---	---
Aluminum	ppm	**<1**	3	---	---
Chromium	ppm	**0**	<1	---	---
Molybdenum	ppm	**44**	58	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**<1**	2	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**1602**	1085	---	---
Magnesium	ppm	**603**	968	---	---
Zinc	ppm	**993**	1285	---	---
Phosphorus	ppm	**806**	1050	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**59**	<1	---	---

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T:
F:

Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP153549
Unique No: 10669749
Signed: Sean Felton
Report Date: 29 Sep 2023

OIL ANALYSIS REPORT

VOLVO PENTA

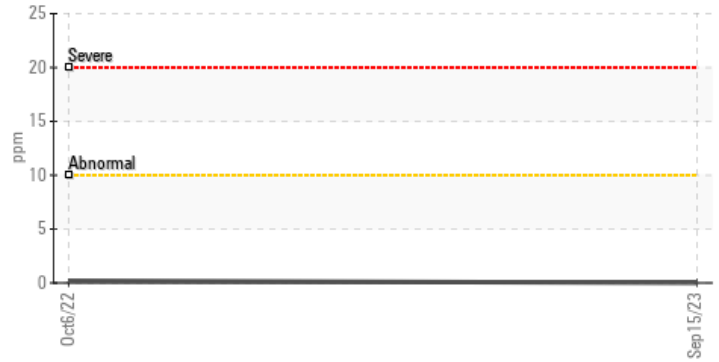
GRAPHS

Iron (ppm)

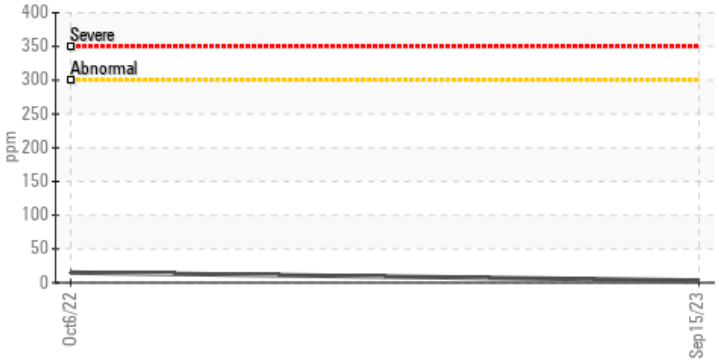
Lead (ppm)

Aluminum (ppm)

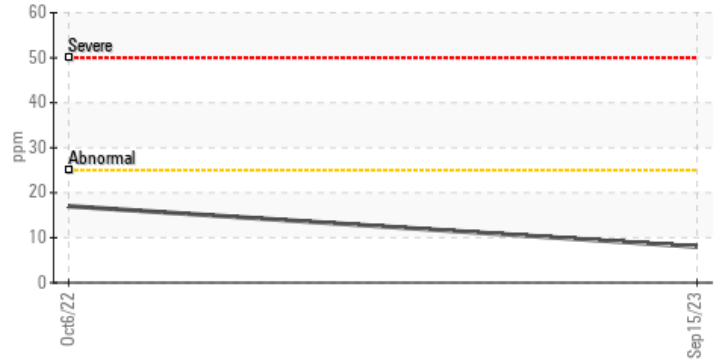
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C

Base Number