OIL ANALYSIS REPORT

VOLVO PENTA

BERNARD GOODIN 3723/55-15 FISCHER PANDA E03021074 - CENTER GENSET

Sample No: VPA050630

Oil Type: SHELL 15W40

SAMPLE INFORMATION

Sample Number		**VPA050630**	VPA047957	---	---
Sample Date		**08 Apr 2024**	19 Jan 2023	---	---
Machine Hours		**834**	0	---	---
Oil Hours		**0**	200	---	---
Oil Changed		**Changed**	Changed	---	---
Sample Status		**NORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.5**	13.4	---	---
Base Number (BN)	mg KOH/g	**8.5**	9.9	---	---
Oxidation (PA)	%	**61**	59	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Soot %	%	**0.1**	0.1	---	---
Nitration (PA)	%	**43**	50	---	---
Sulfation (PA)	%	**55**	53	---	---
Glycol	%	**NEG**	NEG	---	---
Fuel	%	**<1.0**	<1.0	---	---
Silicon	ppm	**3**	8	---	---
Sodium	ppm	**<1**	2	---	---
Potassium	ppm	**2**	2	---	---

WEAR METALS

Iron	ppm	**2**	4	---	---
Copper	ppm	**<1**	<1	---	---
Lead	ppm	**<1**	1	---	---
Tin	ppm	**<1**	<1	---	---
Aluminum	ppm	**1**	1	---	---
Chromium	ppm	**0**	<1	---	---
Molybdenum	ppm	**48**	71	---	---
Nickel	ppm	**0**	<1	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**0**	<1	---	---
Vanadium	ppm	**<1**	<1	---	---

ADDITIVES

Calcium	ppm	**1691**	1270	---	---
Magnesium	ppm	**291**	1134	---	---
Zinc	ppm	**1150**	1476	---	---
Phosphorus	ppm	**983**	1181	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**327**	0	---	---

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F:

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 acceptable for the time in service.

Depot: VP531377
Unique No: 10989296
Signed: Sean Felton
Report Date: 23 Apr 2024

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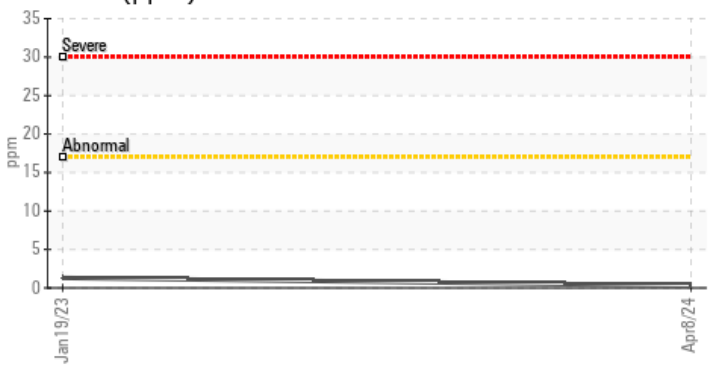
GRAPHS

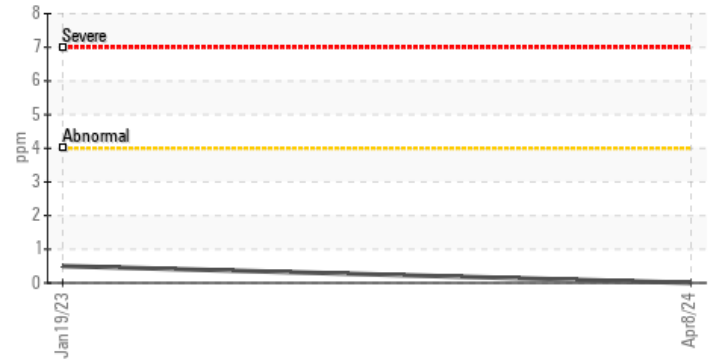
Iron (ppm)

Lead (ppm)

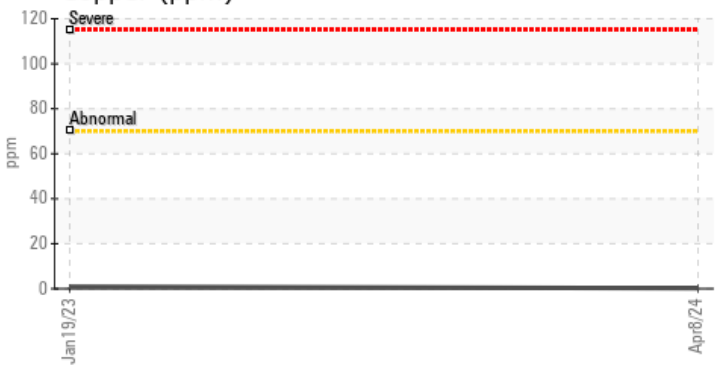


Aluminum (ppm)

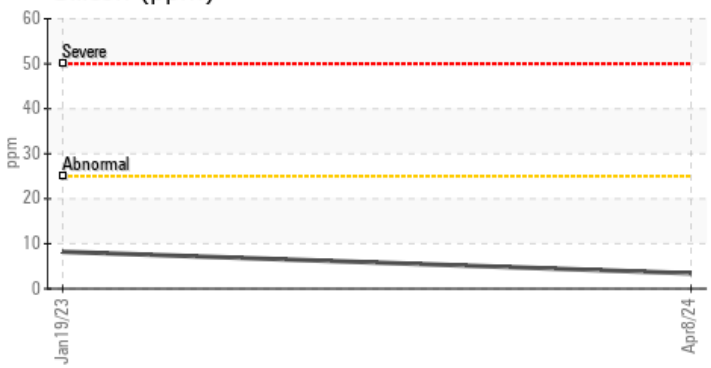
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C

Base Number