

OIL ANALYSIS REPORT

VOLVO PENTA

MINI NEHUR PASCAL 502429 VOLVO PENTA 4012034213 - PORT GASOLINE ENGINE

Sample No: VPA059028
Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number	VPA059028	---	---	---
Sample Date	17 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 8.3	---	---	---
Base Number (BN)	mg KOH/g	■ 7.3	---	---	---
Oxidation (PA)	%	12	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	9	---	---	---
Sulfation (PA)	%	10	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.9	---	---	---
Silicon	ppm	▲ 34	---	---	---
Sodium	ppm	▲ 320	---	---	---
Potassium	ppm	▲ 21	---	---	---

WEAR METALS

Iron	ppm	■ 132	---	---	---
Copper	ppm	■ 12	---	---	---
Lead	ppm	■ 26	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	▲ 21	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	13	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ 28	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	1437	---	---	---
Magnesium	ppm	24	---	---	---
Zinc	ppm	724	---	---	---
Phosphorus	ppm	583	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	9	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

Depot: VP794951
Unique No: 10701303
Signed: Jonathan Hester
Report Date: 24 Oct 2023

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GRAPHS

