

OIL ANALYSIS REPORT

VOLVO PENTA

BILL LUDWIG 54494 VOLVO PENTA A1110863 - GASOLINE ENGINE

Sample No: VPA018889

Oil Type: VOLVO PENTA 10W40 SYNTHETIC

SAMPLE INFORMATION

Sample Number	VPA018889	---	---	---
Sample Date	20 Jul 2023	---	---	---
Machine Hours	108	---	---	---
Oil Hours	66	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	---	---	---
Base Number (BN)	mg KOH/g	■ 5.4	---	---	---
Oxidation (PA)	%	16	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	11	---	---	---
Sulfation (PA)	%	13	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 5.1	---	---	---
Silicon	ppm	■ 59	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

Iron	ppm	■ 54	---	---	---
Copper	ppm	■ 38	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	■ 14	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	35	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	1862	---	---	---
Magnesium	ppm	43	---	---	---
Zinc	ppm	730	---	---	---
Phosphorus	ppm	610	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	3	---	---	---

Kelly's Port

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Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Moderate concentration of visible dirt/debris present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP152989
Unique No: 10572992
Signed: Jonathan Hester
Report Date: 27 Jul 2023

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GRAPHS

