

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A1125741 - CENTER DIESEL ENGINE

Sample No: VPA050665

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA050665	VPA043169	VPA025740	---
Sample Date	25 Sep 2023	12 Nov 2022	04 Jan 2022	---
Machine Hours	593	388	184	---
Oil Hours	205	205	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	■ 13.2	■ 13.0	---
Base Number (BN)	mg KOH/g	■ 9.8	■ 11.2	■ 10.3	---
Oxidation (PA)	%	57	65	76	---

CONTAMINATION

Soot %	%	■ 0.3	■ 0.4	■ 0.3	---
Nitration (PA)	%	48	56	48	---
Sulfation (PA)	%	53	59	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 0.2	<1.0	<1.0	---
Silicon	ppm	■ 7	■ 10	■ 21	---
Sodium	ppm	■ 4	■ 2	■ 3	---
Potassium	ppm	■ 2	■ 2	■ 2	---

WEAR METALS

Iron	ppm	■ 6	■ 27	■ 26	---
Copper	ppm	■ 3	■ 16	■ 18	---
Lead	ppm	■ 1	■ 6	■ 7	---
Tin	ppm	■ <1	■ 1	■ 3	---
Aluminum	ppm	■ 2	■ 7	■ 10	---
Chromium	ppm	■ <1	■ 3	■ 3	---
Molybdenum	ppm	■ 128	■ 61	■ 47	---
Nickel	ppm	■ 0	■ 8	■ 4	---
Titanium	ppm	■ 0	■ <1	■ <1	---
Silver	ppm	■ 0	■ 0	■ <1	---
Manganese	ppm	■ 1	■ <1	■ 1	---
Vanadium	ppm	0	<1	<1	---

ADDITIVES

Calcium	ppm	■ 1671	■ 1191	■ 1480	---
Magnesium	ppm	■ 742	■ 884	■ 588	---
Zinc	ppm	■ 882	■ 1249	■ 1021	---
Phosphorus	ppm	■ 740	■ 1047	■ 931	---
Barium	ppm	■ 0	■ 2	■ 0	---
Boron	ppm	■ 356	■ 10	■ 49	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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: MIKANA
Unique No: 10670469
Signed: Jonathan Hester
Report Date: 02 Oct 2023

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GRAPHS

