

OIL ANALYSIS REPORT

VOLVO PENTA

BOB WADDELL SAM VOLVO PENTA 7011292869 - PORT DIESEL ENGINE

Sample No: VPA059075

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059075	VPA047105	---	---
Sample Date	25 Sep 2023	06 Apr 2022	---	---
Machine Hours	855	321	---	---
Oil Hours	264	170	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	■ 12.8	---	---
Base Number (BN)	mg KOH/g	■ 9.7	■ 7.9	---	---
Oxidation (PA)	%	56	51	---	---

CONTAMINATION

Soot %	%	■ 0.3	■ 0.1	---	---
Nitration (PA)	%	45	63	---	---
Sulfation (PA)	%	53	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 2.4	<1.0	---	---
Silicon	ppm	■ 7	■ 5	---	---
Sodium	ppm	■ 11	■ 1	---	---
Potassium	ppm	■ <1	■ 2	---	---

WEAR METALS

Iron	ppm	■ 7	■ 5	---	---
Copper	ppm	■ 16	■ 7	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ <1	■ 3	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 60	■ 75	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ <1	■ <1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 1125	■ 1975	---	---
Magnesium	ppm	1029	■ 179	---	---
Zinc	ppm	■ 1311	■ 1196	---	---
Phosphorus	ppm	■ 1059	■ 1032	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 2	■ 76	---	---

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. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP794951
Unique No: 10669741
Signed: Jonathan Hester
Report Date: 02 Oct 2023

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GRAPHS

