

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 2016159841 - INDUSTRIAL - GENSET

Sample No: VPA051118

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA051118	---	---	---
Sample Date	06 Jun 2024	---	---	---
Machine Hours	3587	---	---	---
Oil Hours	587	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 12.0	---	---	---
Base Number (BN)	mg KOH/g	■ 9.1	---	---	---
Oxidation (PA)	%	■ 61	---	---	---

CONTAMINATION

Water	%	■ NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 63	---	---	---
Sulfation (PA)	%	■ 55	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 1.9	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 1	---	---	---

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.

WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 61	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 1061	---	---	---
Magnesium	ppm	■ 929	---	---	---
Zinc	ppm	■ 1179	---	---	---
Phosphorus	ppm	■ 965	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 2	---	---	---

Depot: VP1224185
Unique No: 11075926
Signed: Jonathan Hester
Report Date: 19 Jun 2024

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GRAPHS

