

OIL ANALYSIS REPORT

VOLVO PENTA

6143 VOLVO PENTA NOT GIVEN VPA050922 - STARBOARD DIESEL ENGINE

Sample No: VPA050922

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

SAMPLE INFORMATION

Sample Number	VPA050922	---	---	---
Sample Date	01 Nov 2023	---	---	---
Machine Hours	245	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	---	---	---
Base Number (BN)	mg KOH/g	■ 7.8	---	---	---
Oxidation (PA)	%	■ 58	---	---	---

CONTAMINATION

Soot %	%	■ 1.3	---	---	---
Nitration (PA)	%	■ 85	---	---	---
Sulfation (PA)	%	■ 56	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 22	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

Iron	ppm	■ 45	---	---	---
Copper	ppm	■ 48	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 5	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	■ 84	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 2358	---	---	---
Magnesium	ppm	■ 12	---	---	---
Zinc	ppm	■ 1161	---	---	---
Phosphorus	ppm	■ 893	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 67	---	---	---

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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: VP610610

Unique No: 10729699

Signed: Jonathan Hester

Report Date: 09 Nov 2023

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GRAPHS

